

April 2020 ~ Resource #360424

Medications Stored in the Refrigerator

(Information below comes from current U.S. and Canadian product labeling and is current as of date of publication)

Proper medication storage is important to ensure medication shelf life until the manufacturer expiration date and to reduce waste. Many meds are recommended to be stored at controlled-room temperature. However, several meds require storage in the refrigerator or freezer to ensure stability. See our toolbox, *Medication Storage: Maintaining the Cold Chain*, for helpful storage tips and other resources. Though most meds requiring storage at temperatures colder than room temperature should be stored in the refrigerator, expect to see a few meds require storage in the freezer. Some examples of **medications requiring frozen storage** conditions include: anthrax immune globulin (*Anthraxis* [U.S. only]), carmustine wafer (*Gladel* [U.S. only]), dinoprostone vaginal insert (*Cervidil*), dinoprostone vaginal suppository (*Prostin E2* [U.S.]), varicella vaccine (*Varivax* [U.S.]; *Varivax III* [Canada] can be stored in the refrigerator or freezer), zoster vaccine (*Zostavax* [U.S.]; *Zostavax II* [Canada] can be stored in the refrigerator or freezer). Use the list below to help identify medications requiring **refrigerator storage** and become familiar with acceptable temperature excursions from recommended storage conditions. List may not be all inclusive.

Abbreviations: RT = room temperature.

Abaloparatide (*Tymlos* [U.S.])

- Once open, may store at RT (68°F to 77°F [20°C to 25°C]) for up to 30 days.

Abatacept (*Orencia*)

AbobotulinumtoxinA (*Dysport*)

Adalimumab (*Humira*)

- May store pens or prefilled syringes at RT (up to 77°F [25°C]) for up to 14 days.

Alirocumab (*Praluent*)

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Ado-trastuzumab emtansine (*Kadcyla* [U.S.])

Aflibercept (*Eylea*)

- May store at RT (77°F [25°C]) for up to 24 hours (Canadian labeling).

Aldesleukin (*Proleukin*)

Alemtuzumab (*Lemtrada*)

Alglucosidase alfa (*Lumizyme* [U.S.];

Myozyme [Canada])

Alprostadil injection (*Caverject*, *Prostin VR*)

- *Caverject* 40 mcg: may store at RT (up to 77°F [25°C]) for up to 3 months.
- *Caverject* 20 mcg: does not require refrigeration.
- *Caverject Impulse* (U.S.): does not require refrigeration.

Alprostadil suppositories (*Muse*)

- May store at RT (up to 86°F [30°C]) for up to 14 days.

Alteplase (*Cathflo Activase* [U.S.]; *Cathflo* [Canada])

Amifampridine (*Ruzurgi* [U.S.])

- After dispensing, may store at RT (up to 77°F [25°C]) for up to 3 months, with excursions permitted up to 86°F [30°C]).

Amphotericin B (*Abelcet*;

Fungizone [Canada])

Anakinra (*Kineret*)

Angiotensin II injection (*Giapreza* [U.S.])

Anidulafungin (*Eraxis*)

- May store at RT (up to 77°F [25°C]) for up to 96 hours.

Antihemophilic factors (Refer to product labeling for specifics.)

Antivenin, black widow (U.S.)

Antivenin, coral snake (U.S.)

Anti-thymocyte globulin, rabbit (*Thymoglobulin*)

- Excursions up to 98.6° F (37°C) for a total time of no more than 10 days for transport are permitted (Canadian labeling).

Arformoterol (*Brovana* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 6 weeks.

Ascorbic acid injection

Atezolizumab (*Tecentriq*)

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Atracurium besylate (U.S.)

- May store at RT (up to 77°F [25°C]) for up to 14 days.

Avelumab (*Bavencio*)Azithromycin ophthalmic (*Azasite* [U.S.])

- Once open, may store at RT (up to 77°F [25°C]) for up to 14 days.

Aztreonam (*Cayston*)

- After dispensing, may store at RT (up to 77°F [25°C]) for up to 28 days.

Bacitracin powder for injection (Canada)

Basiliximab (*Simulect*)Becaplermin (*Regranex* [U.S.])Belatacept (*Nulojix* [U.S.])Belimumab (*Benlysta*)

- After dispensing, prefilled autoinjectors and syringes may be stored at RT (up to 86°F [30°C]) for up to 12 hours (U.S. labeling).

Bendamustine (*Bendeka* [U.S.]; *Treanda* [Canada])

- *Treanda*: does not require refrigeration.

Benralizumab (*Fasenra*)

- May store at RT (up to 77°F [25°C]) for up to 14 days.

Benzoyl peroxide/clindamycin gel (*Neuac* [U.S.], *Onexton* [U.S.]; *Clindoxyl* [Canada], *Clindoxyl ADV* [Canada])

- After dispensing, store at RT (up to 77°F [25°C]) for up to 60 days (10 weeks [*Onexton*]).

Benzylpenicilloyl polylysine injection (*Pre-Pen*)

- May store at RT (up to 77°F [25°C]) for up to 24 hours.

Beractant (*Survanta*)

- May store at RT (up to 77°F [25°C]) for up to 24 hours.

Bevacizumab (*Avastin*, *Mvasi*)Bezlotoxumab (*Zinplava* [U.S.])Bivalirudin injection (*Angiomax*)

- Excursions are permitted up to 77°F (25°C) (U.S. labeling). Should be stored at RT (up to 77°F [25°C]) (Canadian labeling).

Bleomycin injection

Blinatumomab (*Blincyto*)

- May be stored at RT for up to 8 hours (U.S. labeling).

Brodalumab (*Siliq*)

- May store prefilled syringes at RT (up to 77°F [25°C]) for up to 14 days.

Bupivacaine liposomal (*Exparel* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Buprenorphine injection (*Sublocade*)

- May store at RT (up to 86°F [30°C]) for up to 7 days.

Busulfan injection (*Busulfex*)Calcitonin injection (*Miacalcin* [U.S.]; *Calcimar* [Canada])

- *Calcimar*: may store at RT (up to 86°F [30°C]) for up to 2 weeks.

Calcitonin nasal spray (generics [U.S.])

- Once open, may store at RT (up to 77°F [25°C]) for up to 35 days.

Canakinumab (*Ilaris*)Carboprost (*Hemabate*)Carfilzomib (*Kyprolis*)Carglumic acid (*Carbaglu*)Carmustine (*BiCNU*)Cefiderocol (*Fetroja* [U.S.])Ceftolozane/tazobactam (*Zerbaxa*)Certolizumab pegol (*Cimzia*)

- May store at RT (up to 77°F [25°C]) for a single period of up to 10 days (Canadian labeling).
- May store at RT (up to 77°F [25°C]) for up to 6 months (U.S. labeling).

Cetuximab (*Erbitux*)Chlorambucil (*Leukeran*)Ciprofloxacin 6% otic (*Otiprio* [U.S.])Cisatracurium (*Nimbex* [U.S.]; *Cisatracurium Omega* [Canada])

- Use within 21 days of removing from refrigerator, even if re-refrigerated.

Cladribine injection

Clevidipine (*Cleviprex* [U.S.])

- May be stored at RT (up to 77°F [25°C]) for up to 2 months.

Collagenase clostridium histolyticum (*Xiaflex*)Conjugated estrogen injection (*Premarin Intravenous*)Corticotropin (*Acthrel* [U.S.])Cosyntropin injection (*Synacthen Depot* [Canada])Cysteamine bitrate (*Procysbi*)

- After dispensing, store at RT (68°F to 77°F [20°C to 25°C]).

Dacarbazine

Daptomycin (*Cubicin*)Daratumumab (*Darzalex*)Darbepoetin alfa (*Aranesp*)Daunorubicin (*Vyxeos* [U.S.])Denosumab (*Prolia*; *Xgeva*)

- May be stored at RT (up to 77°F [25°C]) for up to 14 days (U.S. labeling) or 30 days (Canadian labeling).

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Desmopressin (*DDAVP Rhinal Tube* [U.S.]; *DDAVP Rhinyle* [Canada])

- *DDAVP Rhinal Tube*: may store at RT (up to 77°F [25°C]) for up to 3 weeks.

Desmopressin injection (*DDAVP* [U.S.]; *Octostim* [Canada])

Digoxin immune Fab (*DigiFab*)

Diltiazem injection

- May store at RT for up to 1 month.

Dinoprostone vaginal gel (*Prepidil*; *Prostin E₂* Vaginal Gel [Canada])

Dinoprostone (*Prostin E₂* tablets [Canada])

Dinutuximab (*Unituxin*)

Dornase alfa (*Pulmozyme*)

Doxorubicin liposomal (*Doxil* [U.S.], *Lipodox* [U.S.]; *Caelyx* [Canada])

Dronabinol capsules (U.S.)

- May store between temperatures of 46°F and 59°F (8°C and 15°C), if not refrigerated.

Dronabinol solution (*Syndros* [U.S.])

- Once open, may store at RT (up to 77°F [25°C]) for up to 42 days.

Dulaglutide (*Trulicity*)

- May store single-dose pens at RT (up to 86° [30°C]) for up to 14 days.

Dupilumab injection (*Dupixent*)

- May store prefilled syringes at RT (up to 77°F [25°C]) for up to 14 days (U.S. labeling).

Durvalumab (*Imfinzi*)

Ecaltantide (*Kalbitor* [U.S.])

- May store at RT (up to 86°F [30°C]) for up to 14 days.

Echothiophate iodide (U.S.)

Ecuzumab (*Soliris*)

- May store in original carton at RT (up to 77°F [25°C]) for up to 3 days.

Elapegademase (*Recovi* [U.S.])

Elosulfase alfa (*Vimizim*)

Elotuzumab (*Empliciti* [U.S.])

Emicizumab (*Hemlibra*)

- May store unopened vials at RT (up to 86°F [30°C]) for up to 7 days.

Emtricitabine oral solution (*Emtriva* [U.S.])

- May store at RT (up to 77°F [25°C], with excursions up to 86°F [30°C]) for up to 3 months.

Enalapril oral solution (*Epaned* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 60 days.

Epirubicin (*Ellence* [U.S.]; generic only [Canada])

Epoetin alfa (*Epogen* [U.S.], *Procrit* [U.S.]; *Eprex* [Canada])

- *Eprex*: may store at RT (up to 77°F [25°C]) for one single period up to 7 days.

Eptifibatide (*Integrilin*)

- May store at RT (up to 77°F [25°C] with excursions to 86°F [30°C]) for up to 2 months.

Erenumab (*Aimovig*)

- May be stored at RT (up to 77°F [25°C]) for up to 7 days (U.S. labeling) or 14 days (Canadian labeling).

Estradiol/norethindrone acetate patch (*CombiPatch* [U.S.]; *Estalis* [Canada])

- After dispensing, may store at RT (up to 77°F [25°C]) for up to 6 months.

Estradiol patch (*Estradot* [Canada])

- May store between 2°C and 30°C.

Estramustine (*Emcyt*)

- May store between 2°C and 25°C (Canadian labeling).

Etanercept (*Enbrel*; *Brenzys* [Canada], *Erelzi* [Canada])

- May store at RT (up to 77°F [25°C]) for up to 14 days (U.S. labeling).

- Per Canadian labeling:

- *Brenzys*; *Enbrel* single-dose prefilled syringes, prefilled *SureClick*, and multi-use vials: may store up to 27°C for up to 60 days.
- *Erelzi*: may be stored at RT (between 20°C and 25°C) for up to 28 days.

Etonogestrel/ethinyl estradiol vaginal ring (*EluRyng* [U.S.]; *NuvaRing*)

- After dispensing, may store at RT (up to 77°F [25°C] with excursions up to 86° [30°C]) for up to 4 months.

Etoposide powder for injection (*Etopophos* [U.S.])

Evolocumab (*Repatha*)

- May store at RT (up to 77°F [25°C] with excursions up to 86° [30°C]) for up to 30 days.

Exenatide (*Byetta*, *Bydureon*; *Bydureon BCise* [U.S.])

- *Bydureon*: may store at RT (up to 77°F [25°C]; up to 30°C [Canadian labeling]) for up to 4 weeks.
- *Bydureon BCise*: may store at RT (up to 86°F [30°C]) for up to 4 weeks.
- *Byetta*: once open, may store at RT (up to 77°F [25°C]) for up to 30 days.

Famotidine injection

fam-trastuzumab deruxtecan-nxki (*Enhertu* [U.S.])

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Filgrastim (*Neupogen; Nivestym* [U.S.],
Zarxio [U.S.]; *Grastofil* [Canada])

- *Neupogen*: may store at RT (up to 86°F [30°C] for 14 days [Canadian labeling]).
- *Grastofil*: may store at RT (up to 30°C) for up to 15 days.
- *Zarxio*: may store at RT (up to 77°F [25°C]) for up to 24 hours.

Formoterol (*Perforomist* [U.S.])

- After dispensing, may store at 36°F to 77°F (2°C to 25°C) for up to 3 months.

Fosphenytoin (*Cerebyx*)

- May store at RT for up to 48 hours.

Fulvestrant injection (*Faslodex*)

Gabapentin oral solution (*Neurontin* [U.S.])

Galcanzumab (*Emgality*)

- May store at RT (up to 86°F [30°C]) for up to 7 days.

Galsulfase (*Naglazyme*)

Gemtuzumab ozogamicin (*Mylotarg* [U.S.])

Glatiramer acetate (*Copaxone, Glatopa* [U.S.]; *Glatect* [Canada])

- *Copaxone* and *Glatopa*: may store at RT (59°F to 86°F [15°C to 30°C]) for up to 1 month.
- *Glatect*: may store at RT (15°C to 25°C) for up to 1 month.

Glucarpidase (*Voraxaze* [U.S.])

Golimumab (*Simponi, Simponi Aria* [U.S.];
Simponi I.V. [Canada])

- May store at RT (up to 77°F [25°C]) for a single period of time up to 30 days.

Granisetron extended-release injection
(*Sustol* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 7 days.

Guselkumab (*Tremfya*)

Human chorionic gonadotropin (*Ovidrel*)

- After dispensing, may store at RT (up to 77°F [25°C]) for up to 30 days.

Hyaluronate/chondroitin (*DuoVisc* [U.S.])

Hyaluronidase injection, human recombinant
(*Hylenex* [U.S.])

Ibritumomab tiuxetan (*Zevalin*)

Idarubicin (*Idamycin PFS*)

Idarucizumab (*Praxbind*)

- May store at RT (up to 77°F [25°C]) or up to 30°C [Canadian labeling]) for no more than 48 hours (protected from light) or no more than 6 hours (not protected from light).

Idursulfase (*Elaprase*)

Immune Globulin (*GamaSTAN S/D, Cuvitru*)

- *Cuvitru*: may store at RT (up to 77°F [25°C]) for up to 24 months.

Infliximab

- *Remicade*: may store at RT (up to 86°F [30°C]) for up to 6 months.

Interferon alfa-2b (*Intron A*)

- May store at RT (up to 77°F [25°C]) (Canadian labeling).
 - lyophilized powder: up to 4 weeks.
 - ready-to-use solution: up to 7 days.

Interferon beta-1a (*Avonex*)

- May store lyophilized powder at RT (up to 77°F [25°C]) for a total of 30 days (U.S. labeling).
- May store prefilled syringes and pens at RT (up to 77°F [25°C]) (U.S. labeling), up to 86° (30°C) (Canadian labeling) for up to 7 days.

Interferon beta-1a (*Plegridy*)

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Interferon beta-1a (*Rebif, Rebif Rebidose* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Insulin (U.S. subscribers; Canadian subscribers)

Interferon gamma-1b (*Actimmune* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 12 hours.

Ipilimumab (*Yervoy*)

Irinotecan liposome (*Onivyde*)

Isavuconazonium injection (*Cresemba*)

Ixabepilone (*Ixempra* [U.S.])

Ixekizumab (*Taltz*)

- May store at RT (up to 86°F [30°C]) for up to 5 days (only after dispensing [U.S. labeling]).

Lanreotide acetate injection (*Somatuline Depot* [U.S.]; *Somatuline Autogel* [Canada])

Laronidase (*Aldurazyme*)

Latanoprost (*Xalatan*)

- Once open, may store at RT (up to 77°F [25°C]) for up to 6 weeks.

Latanoprost/timolol (*Xalacom* [Canada])

- Once open, may store at RT (up to 77°F [25°C]) for up to 10 weeks.

Latanoprostene bunod (*Vyzulta*)

- Once open, may store at RT (up to 77°F [25°C]) for up to 8 weeks.

Leuprolide acetate (*Eligard, Lupron Depot; Lupron* [Canada])

- *Eligard*: May store at RT (up to 86° [30°C]) for up to 8 weeks.

- *Lupron Depot*: store at RT.

- *Lupron*: store in the refrigerator

Levodopa/carbidopa intestinal gel (*Duodopa* [Canada])

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Liotrix tablets (*Thyrolar* [U.S.])

Liraglutide (*Saxenda, Victoza*)

- After first use, may store at RT (up to 86°F [30°C]) for up to 30 days.

Lixisenatide (*Adlyxin* [U.S.]; *Adlyxine* [Canada])

- Once open, store at RT (up to 86°F [30°C]) for up to 14 days.

Lopinavir/ritonavir oral solution (*Kaletra*)

- After dispensing, may store at RT (77°F [25°C]) for up to 2 months (U.S. labeling); 42 days (Canadian labeling).

Lorazepam injection

Lorazepam oral concentrate (U.S.)

Lymphocyte immune globulin (*Atgam*)

Melphalan tablets (*Alkeran*)

Mepolizumab (*Nucala*)

- Refrigerate prefilled autoinjectors and syringes. Unopened cartons may be stored at RT (up to 86°F [30°C]) for up to 7 days. Must administer within 8 hours once the carton is open.
- Store vials at RT.

Methylethylergonovine injection (U.S.)

Metreleptin (*Myalept* [U.S.])

Naltrexone extended-release injection (*Vivitrol* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 7 days.

Natalizumab (*Tysabri*)

Necitumumab (*Portrazza* [U.S.])

Neomycin/polymyxin B urinary irrigant (*Neosporin G.U.* [U.S.])

Nivolumab (*Opdivo*)

Nusinersen (*Spinraza*)

- May store at RT (up to 86°F [30°C]) for up to 14 days.

Obinutuzumab (*Gazyva*)

Ocrelizumab (*Ocrevus*)

Octreotide (*Sandostatin, Sandostatin LAR*)

- *Sandostatin*: may store at RT (up to 86°F [30°C]) for up to 14 days.
- *Sandostatin LAR*: may store at RT for 30 to 60 minutes prior to reconstitution (U.S. labeling) or store at RT (20°C to 25°C) for at least 30 minutes, but not longer than 24 hours, prior to reconstitution (Canadian labeling).

Ofatumumab (*Arzerra* [U.S.])

Olaratumab (*Lartruvo*)

Omalizumab (*Xolair*)

OnabotulinumtoxinA (*Botox*)

- May store frozen (at or below 23°F [-5°C]) (Canadian labeling).

Palifermin (*Kepivance* [U.S.])

Palivizumab (*Synagis*)

Pancuronium (U.S.)

- May store 10 mL multidose vials at RT for up to 6 months.

Panitumumab (*Vectibix*)

Parathyroid hormone (*Natpara* [U.S.])

Patiromer (*Veltassa*)

- May store at RT (up to 81°F [27°C]) for up to 3 months (U.S. labeling).
- After dispensing, may store at RT (up to 77°F [25°C]) for up to 6 months (Canadian labeling).

Peanut (arachis hypogaea) allergen powder-dnfp (*Palforzia* [U.S.])

Pegaspargase (*Oncaspar*)

- May store at RT (up to 77°F [25°C]) for up to 48 hours (U.S. labeling).

Pegfilgrastim (*Neulasta, Fulphila* [U.S.], *Udenyca* [U.S.], *Ziextenzo* [U.S.]; *Lapelga* [Canada])

- *Neulasta*: may store *Neulasta* at RT for up to 48 hours (U.S. labeling) or 72 hours (Canadian labeling).
- *Lapelga*: may store at RT (up to 25°C) for up to 15 days.
- *Fulphila* and *Ziextenzo*: may store at RT for up to 72 hours.
- *Udenyca*: may store at RT for up to 48 hours.

Peginterferon alfa-2a (*Pegasys*)

- May store at RT for up to 24 hours (U.S. labeling).

Peginterferon alfa-2b (*PegIntron* [U.S.])

- Store prefilled pens in the refrigerator.
- Store vials at RT.

Pegloticase (*Krystexxa* [U.S.])

Pegvisomant (*Somavert*)

- Store vials in the refrigerator.
- Prefilled syringes may be stored at RT (up to 86°F [30°C]) (Canadian labeling).

Pembrolizumab (*Keytruda*)

Penicillin G benzathine (*Bicillin L-A*)

- May store at RT (up to 86°F [30°C]) for up to 7 days (Canadian labeling).

Penicillin G benzathine/penicillin G procaine (*Bicillin C-R* [U.S.])

Pertuzumab (*Perjeta*)

Phenylephrine ophthalmic solution (2.5%, 10% [U.S.])

Posaconazole injection (*Noxafil* [U.S.];

Posanol [Canada])

Pralatrexate (*Folotyn*)

- May store at RT for up to 72 hours.

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Pramlintide (*Symlin* [U.S.])

- Once open, may store at RT (up to 86°F [30°C]) for up to 30 days.

Promethazine rectal suppositories
(*Promethegan* [U.S.])

Proparacaine ophthalmic solution (*Alcaine*)
Proparacaine/fluorescein (*Flucaeine* [U.S.])

- May store at RT for up to 1 month.

Quinupristin-dalfopristin (*Synercid* [U.S.])

Rabies immune globulin (*HyperRAB*,
HyperRAB S/D, *Imogam Rabies*)

Ramucirumab (*Cyramza*)

Ranibizumab (*Lucentis*)

- Prior to use, may store at RT (up to 77°F [25°C]) for up to 24 hours (Canadian labeling).

Reslizumab (*Cinqair*)

RhoGAM immune globulin (*HyperRHO S/D* [U.S.], *MICRhoGAM* [U.S.]; *RhoGAM* [U.S.]; *WinRho S/D*)

RimabotulinumtoxinB (*Myobloc* [U.S.])

Risperidone long-acting injection (*Risperdal Consta*; *Perseris* [U.S.])

- May store at RT (up to 77°F [25°C]) for up to 7 days.

Rituximab (*Rituxan*, *Truxima*; *Rituxan SC* [Canada]; *Ruxience* [U.S.])

Rituximab/hyaluronidase (*Rituxan Hycela* [U.S.])

Rocuronium (*Zemuron*)

- May store **unopened** at RT (up to 77°F [25°C]) for up to 60 days (U.S. labeling) and (up to 86°F [30°C]) for up to 90 days (Canadian labeling).
- **Once open**, at RT (up to 77°F [25°C]) must use within 30 days.

Romiplostim (*Nplate*)

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Romozosumab (*Evenity*)

- May store at RT (up to 77°F [25°C]) for up to 30 days.

Sacrosidase (*Sucraid* [U.S.])

Sargramostim (*Leukine* [U.S.])

Sarilumab (*Kevzara*)

- May store at RT (up to 77°F [25°C]) for up to 14 days.

Sebelipase alfa (*Kanuma*)

Secukinumab (*Cosentyx*)

- May store at RT (up to 86°F [30°C]) for up to 4 days (Canadian labeling).

Semaglutide injection (*Ozempic*)

- After first use, may store at RT (up to 86°F [30°C]) for up to 8 weeks.

Siltuximab (*Sylvant*)

Sinecatechins (*Veregen*)

- After dispensing, may store at RT (up to 77°F [25°C]) (U.S. labeling).
- May store between 41°F and 77°F (5°C and 25°C) (Canadian labeling).

Sirolimus oral solution (*Rapamune*)

- May store open bottles at RT (up to 77°F [25°C]) for up to 15 days (U.S. labeling) or (up to 86°F [30°C]) for up to 5 days (Canadian labeling).

Somatropin (*Humatrope*, *Nutropin AQ*, *Omnitrope*)

Somatropin (*Norditropin*)

- Once open, may store at RT (up to 77°F [25°C]) for up to 3 weeks.

Somatropin (*Saizen*)

- The 3.33 mg vials should be stored in the refrigerator, but the 5 mg vials should be stored at RT (Canadian labeling).
- All autoinjector cartridge strengths should be stored in the refrigerator, may be stored at RT (up to 77°F [25°C]) for up to 7 days (Canadian labeling).
- All strengths may be stored at RT (up to 86°F [30°C]; U.S. labeling).

Somatropin (*Genotropin*)

- *Genotropin GoQuick*: may store at RT (up to 77°F [25°C]) for up to 4 weeks (Canadian labeling).
- *Genotropin MiniQuick*: may store at RT (up to 77°F [25°C]) for up to 3 months (U.S. labeling) and 6 months (Canadian labeling).

Streptozocin (*Zanosar* [U.S.])

Succinylcholine (*Quelicin*; *Anectine* [U.S.])

- May store at RT for up to 14 days.

Tafluprost (*Zioptan* [U.S.])

- After pouch is opened, may store at RT (up to 77°F [25°C]) for up to 30 days.

Taliglucerase alfa (*Elelyso*)

Telavancin (*Vibativ*)

- Excursions up to 77°F (25°C) are acceptable, but no time limit given (U.S. labeling).

Temozolomide injection (*Temodar* [U.S.])

Temsirolimus (*Torisel*)

Teniposide (U.S.)

Teriparatide (*Forteo*)

Thiotepa (*Tepadina*)

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Tipranavir capsules (*Aptivus*)

- Once open, may store at RT (77°F [25°C] with excursions up to 86°F [30°C]) for up to 60 days.

Tobramycin inhalation solution (*Bethkis* [U.S.], *Kitabis Pak* [U.S.]; *Tobi*)

- May store in opened or unopened foil pouches at RT (up to 77°F [25°C]) for up to 28 days.

Tocilizumab (*Actemra*)

- Prefilled syringes and autoinjectors must be administered within 8 hours of removing from refrigerator and avoid exposure to temperatures above 86°F (30°C) (Canadian labeling).

Topotecan capsules (*Hycamtin* [U.S.])

Trabectedin (*Yondelis*)

Trametinib (*Mekinist*)

- Once open, may store at RT (up to 86°F [30°C]) for up to 30 days (Canadian labeling).

Trastuzumab (*Herceptin*; *Herceptin SC*

[Canada], *Herzuma* [Canada]; *Kanjinti* [U.S.],

Ogivri [U.S.], *Trazimera* [U.S.])

- *Trazimera*: may store at RT (up to 86°F [30°C]) for up to 3 months.

Trastuzumab emtansine (*Kadcyla* [Canada])
Trastuzumab/hyaluronidase-oysk (*Herceptin Hylecta* [U.S.])

- Use within 4 hours of removing from refrigerator and avoid exposure to temperatures above 86°F (30°C).

Trientine (*Clovique* [U.S.], *Syprine* [U.S.])

- *Clovique*: after dispensing, may store blister packs at RT (up to 77°F [25°C]) for up to 30 days.

Trifluridine (*Viroptic* [U.S.])

Ustekinumab (*Stelara*)

Valrubicin (*Valstar* [U.S.]; *Valtaxin* [Canada])

Vaccines (most)

- Some may require storage in the freezer. For more information and specifics, see our toolbox, *Medication Storage: Maintaining the Cold Chain*, and product labeling.

Vedolizumab (*Entyvio*)

Velaglucerase alfa (*Vpriv*)

Vinblastine injection

Vincristine injection

Vinorelbine (*Navelbine* [U.S.], generics)

- May store at RT (up to 77°F [25°C]) for up to 72 hours (U.S. labeling).

Vitamin A palmitate injection (*Aquasol A* [U.S.])

Voriconazole powder for oral suspension (*Vfend*)

- After reconstitution, should be stored at RT (59°F-86°F [15°C-30°C]) for up to 14 days.

Ziv-aflibercept (*Zaltrap* [U.S.])

More . . .

Users of this resource are cautioned to use their own professional judgment and consult any other necessary or appropriate sources prior to making clinical judgments based on the content of this document. Our editors have researched the information with input from experts, government agencies, and national organizations. Information and internet links in this article were current as of the date of publication.

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