

INSULIN

Preparation	Brand		Route	Onset (hrs)	Peak (hrs)	Duration (hrs)	Source
INJECTABLES							
insulin aspart	NovoLog ²	Rx	SC, IV ⁴ , CSII	≤0.25	1–3	3–5	human
insulin aspart protamine/ insulin aspart	NovoLog Mix 70/30 ²	Rx	SC	≤0.25	2.4	24	human
insulin degludec	Tresiba ²	Rx	SC	1	9	25	human
insulin detemir	Levemir ²	Rx	SC	1	none	24	human
insulin glargine	Basaglar ³	Rx	SC	—	none	≥24	human
	Lantus ³	Rx	SC	1.1	none	≥24	human
	Toujeo ³	Rx	SC	6	—	24–120	human
insulin glulisine	Apidra ³	Rx	SC, CSII, IV ⁴	≤0.25	1	2–4	human
insulin lispro	Humalog ³	Rx	SC, IV ^{4,5} , CSII ⁵	≤0.25	1	3.5–4.5	human
insulin lispro protamine/ insulin lispro	Humalog Mix 75/25 ³	Rx	SC	≤0.25	0.5–1.5	24	human
	Humalog Mix 50/50 ³	Rx	SC	≤0.25	1	16	human
insulin injection regular (R)	Humulin R U-100 ¹	OTC	SC, IV ⁴	0.5	2–4	6–8	human
	Humulin R U-500 ¹	Rx	SC	0.5	1.75–4	24	human
	Novolin R ²	OTC	SC, IV ⁴	0.5	2.5–5	8	human
insulin isophane suspension (NPH)/regular insulin (R)	Humulin 70/30 ¹	OTC	SC	0.5	2–12	24	human
	Novolin 70/30 ²	OTC	SC	0.5	2–12	24	human
insulin isophane suspension (NPH)	Humulin N ¹	OTC	SC	1–2	6–12	18–24	human
	Novolin N ²	OTC	SC	1.5	4–12	24	human

ORAL INHALATIONS

Insulin	Afrezza	Rx	oral inh	0.2–0.7	—	2–3	human
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NOTES

Key: CSII = continuous subcutaneous insulin infusion

¹Recombinant (using *E. coli*)

²Recombinant (using *S. cerevisiae*)

³Recombinant human insulin analogue (using *E. coli*)

⁴IV to be used in a clinical setting under proper medical supervision

⁵IV and CSII administration for Humalog U-100 only.

Onset for injectable formulations is always for the SC route. All times are approximate. Maximum effect occurs between hours listed in duration column; actual effect may last longer. Injectable insulins listed are available in a concentration of 100Units/mL; Humulin R, in a concentration of 500Units/mL for SC injection only, is available by prescription from Lilly for insulin resistant patients who are hospitalized or under close medical supervision.

Not an inclusive list of medications and/or dosing instructions. Please see drug monograph at www.eMPR.com and/or contact company for full drug labeling.

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