

## Insulins

Each insulin has its own unique therapeutic effect. The following is a list of insulin types available in the United Kingdom, with their onset, peak, and duration. Remember that these are only rough guides to what usually happens. There can be huge variations between individuals and even within the same person.

Insulin*	Onset of action	Peak	Duration	Cost (Mims February 2016)
<b>Highly purified animal insulins</b>				
Hypurin® Bovine Neutral	Within 1 hour	2-5 hours	6-8 hours	5x3ml cartridge £41.58, 1x10ml £27.72
Hypurin® Porcine Neutral				5x3ml cartridge £37.80 1x10ml £25.20
<b>Ultra short-acting insulin analogues</b>				
Aspart (NovoRapid®)	Within 15 minutes	15 minutes to 1 hour	3-4 hours	5x3ml cartridge £28.31 5x3ml FlexPen £30.60 FlexTouch pen £32.13 1x10ml £14.08
Glulisine (Apidra®)				5x3ml cartridge £28.30 Solostar pen £28.30 1x10ml £16.00
Lispro (Humalog®). <b>Caution:</b> Available in two different strengths 100iu/ml and 200iu/ml				5x3ml cartridge £28.31 5x3ml KwikPen £29.46 £16.61 KwikPen £58.92
<b>Human sequence short-acting insulins</b>				
Actrapid®	Within 30 minutes	1-3 hours	6-8 hours	1x10ml £7.48
Humulin S®				5x3ml cartridge £19.08 £15.68
Insuman® Rapid				5x3ml cartridge £17.50
<b>Highly purified animal intermediate insulins</b>				
Hypurin® Bovine Isophane	Within 2 hours	6-12 hours	18-24 hours	5x3ml cartridge £41.58 £27.72
Hypurin® Porcine Isophane				5x3ml cartridge £37.80 £25.20
<b>Human sequence intermediate insulins (isophane/NPH)</b>				
Insulatard®	Within 2 hours	2-12 hours	18-24 hours	5x3ml cartridge £22.90 Innolet delivery device £20.40 1x10ml £7.48
Humulin I®				5x3ml cartridge £19.08 KwikPen £21.70
Insuman® Basal				5x3ml cartridge £17.50 SoloStar pen £19.80
<b>Highly purified animal long-acting insulin</b>				
Hypurin® Bovine Lente	4-6 hours	10-20 hours	28-36 hours	1x10ml £27.72
<b>Long-acting insulin analogues</b>				
Detemir (Levemir®)	Within 1 hour	None	12-24 hours	5x3ml cartridge £42.00 FlexPen £42.00 5x3ml Innolet delivery device £44.85

## Insulins (continued)

Insulin*	Onset of action	Peak	Duration	Cost (Mims February 2016)
Glargine (Lantus®)	Within 1 hour	None	12-24 hours	5x3ml cartridge £41.50 5x3ml SoloStar £41.50 1x10ml £30.68
Glargine (Abasaglar®)			12-24 hours	5x3ml cartridge £35.28 5x3ml KwikPen £35.28
Degludec (Tresiba®) <b>Caution:</b> available in 2 strengths 100iu/ml and 200iu/ml			>24 hours	5x3ml cartridge £72.00 5x3ml FlexTouch pen £72.00 200iu/ml 3x3ml FlexTouch £86.40
Glargine 300iu/ml (Toujeo®) <b>Caution:</b> Please note high strength insulin 300iu/ml			24-36 hours	3x1.5ml SoloStar pen £33.13
<b>Mixtures</b>				
<b>Highly purified animal</b>				
Hypurin® Porcine 30/70 mix	Within 1 hour	2-12 hours (biphasic)	18-24 hours	5x3ml cartridge £37.80 1x10ml £25.20
<b>Insulin analogues</b>				
Biphasic insulin aspart (NovoMix® 30)	10-30 minutes	1-6 hours (biphasic)	10-24 hours	5x3ml cartridge £28.79 5x3ml FlexPen £29.89
Biphasic insulin lispro (Humalog® Mix 25)				5x3ml cartridge £29.46 5x3ml KwikPen £30.98 1x10ml £16.61
Biphasic insulin lispro (Humalog® Mix 50)				5x3ml cartridge £29.46 5x3ml KwikPen £30.98

\* Sources: Manufacturers' prescribing information, Diabetes UK 'Insulin Actions, Onset, Peak Activity and Duration'