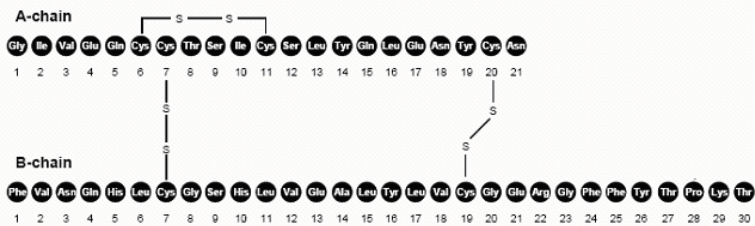


Name	HUMAN INSULIN
Structure	 <p>GIVEQCCTSICSLYQLENYCN (A chain) FVNQHLCGSHLVEALYLVCGERGFFYTPKT (B chain)</p>
Systematic name	--
Formula	$C_{257}H_{383}N_{65}O_{77}S_6$
MW	5808
Monoisotopic mass	5803.671
Mp	229°C
H bond acceptors	142
H bond donors	28
Acid pKa	10: 6 COOH (2 term + 4 Glu), 4 Ph-OH
Basic pKa	6: 3 NH ₂ (2 term + 1 Lys), 1 Arg, 2 His
ACD Log D pH 5.5	--
ACD Log D pH 7.4	1.76
Solubility	Water, Dilute acids (20 mg/mL in 0.01M HCl), Aqueous alkali
LD50	40 mg/Kg rat s.c.
Therapeutic cat	antidiabetic
ATC	A10AB01 A10AC01 A10AD01 A10AE01 A10AF01 A ALIMENTARY TRACT AND METABOLISM A10 DRUGS USED IN DIABETES A10A INSULINS AND ANALOGUES A10AB Insulins and analogues for injection, fast-acting
Receptors	insulin receptor
Notes	endogenous hormone

Nomi commerciali (IT)	
ACTRAPHANE, HUMULIN	A, RR, iniettabile