

IGF1

Recombinant Human LR3 IGF-I Endotoxin Free

Catalog No.	CRI246B CRI246C	Quantity:	100 µg 1.0 mg
Alternate Names:	Insulin-like growth factor I		
Description:	Human LR3 insulin-like Growth Factor-I (LR3IGF-I) is an analog of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arginine for the Glutamine at position 3, plus a 13 amino acid extension peptide at the N-terminus. Human LR3IGF-I is more potent than native IGF-I in vitro and in vivo. This increased potency is due to reduced binding of LR3IGF-I to most of the IGF binding proteins which modify the biological actions of IGF-I.		
UniProt ID:	P05019		
Source:	Expressed in <i>Hordeum vulgare</i> (barley endosperm tissue)		
Molecular Weight:	9.1 kDa, predicted (83 aa + 16x His tag) migrates at 12.4 kDa on SDS-PAGE		
Formulation:	PBS, pH 7.2		
Purity:	>95% by SDS-PAGE analysis		
Endotoxin Level:	< 0.1 EU/µg by kinetic LAL analysis No pyrogenic or pro-inflammatory contaminants by monocyte activation test (MAT)		
Biological Activity:	ED ₅₀ < 2 ng/ml, determined by dose-dependent proliferation of FDC-P1 cells.		
Specific Activity:	> 5.0 x 10 ⁵ U/mg		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

