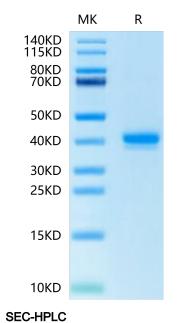
Human IGFI Protein

Cat. No. IGF-HM201

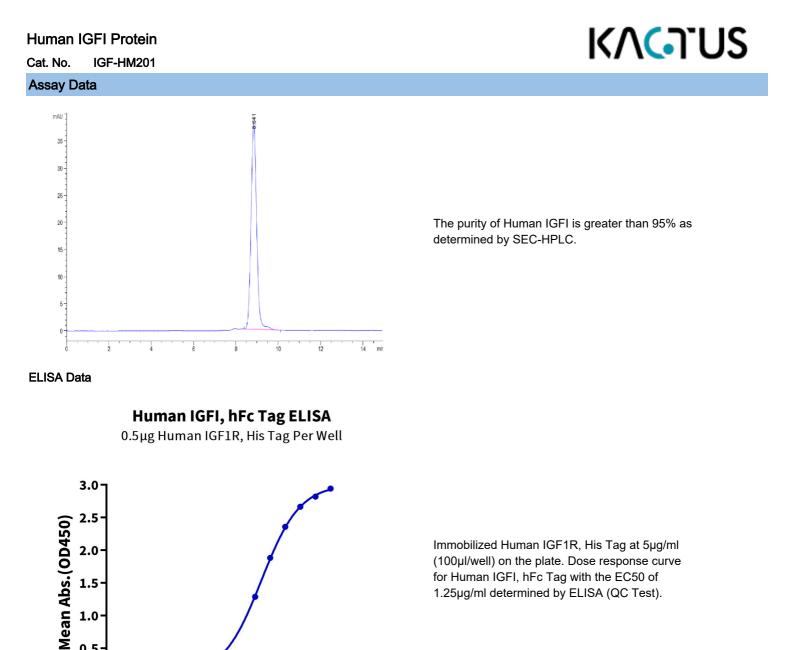
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Description	
Source	Recombinant Human IGFI Protein is expressed from HEK293 with hFc tag at the N-Terminus.
	It contains Gly49-Ala118.
Accession	P05019-1
Molecular Weight	The protein has a predicted MW of 33.18 kDa. Due to glycosylation, the protein migrates to 38-43 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	The insulin family consists of insulin, insulin-like growth factor 1 (IGF-1), insulin-like growth factor 2 (IGF-2), their receptors (IR, IGF-1R and IGF-2R), and their binding proteins.Insulin-like growth factor I (IGF-I) is a polypeptide hormone produced mainly by the liver in response to the endocrine GH stimulus, but it is also secreted by multiple tissues for autocrine/paracrine purposes.
Assay Data	

Bis-Tris PAGE



Human IGFI on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized Human IGF1R, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IGFI, hFc Tag with the EC50 of 1.25µg/ml determined by ELISA (QC Test).



2.0

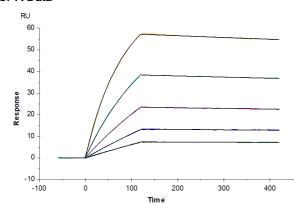
1.5

1.0

0.5

0.0-

-3



-2

-1

Log Human IGFI, hFc Tag Conc.(µg/ml)

0

1

2

Human IGFBP-3, His Tag captured on CM5 Chip via anti-his antibody can bind Human IGFI, hFc Tag with an affinity constant of 2.32 nM as determined in SPR assay (Biacore T200).