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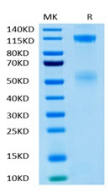
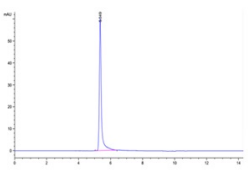
Recombinant human IGF1R protein, C-His-Avi (HEK293)

Catalog Number:	bs-47115P
Concentration:	＞0.5 mg/ml
AA Seq:	1-932/1367
Detected MW:	Due to glycosylation, the protein migrates to 110-120 (Alpha subunit) and 52-55 (Beta subunit) kDa based on Tris-Bis PAGE result.
Tags:	C-His-Avi
Activity:	Not tested
Endotoxin:	<1.0 EU/μg as determined by LAL
Purity:	>95% as determined by Tris-Bis PAGE; >95% as determined by SEC-HPLC
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from 0.22um filtered solution in PBS (pH7.4) with 5mM DTT. Normally 5% trehalose is added as protectant before Lyophilization. Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	This receptor binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is necessary for the activation of the IGF1-stimulated downstream signaling cascade. When present in a hybrid receptor with INSR, binds IGF1. PubMed:12138094 shows that hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low affinity by IGF2 and not significantly activated by insulin, and that hybrid receptors composed of IGF1R and INSR isoform Short are activated by IGF1, IGF2 and insulin. In contrast, PubMed:16831875 shows that hybrid receptors composed of IGF1R and INSR isoform Long and hybrid receptors composed of IGF1R and INSR isoform Short have similar binding characteristics, both bind IGF1 and have a low affinity for insulin.

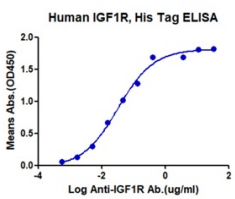
VALIDATION IMAGES



Human IGF1R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human IGF1R is greater than 95% as determined by SEC-HPLC.



Immobilized Human IGF1R,His Tag at 0.2μg/ml (100μl/Well). Dose response curve for Anti-IGF1R Ab.with the EC50 of 32.4ng/ml determined by

ELISA.