Human OSMR beta Protein

KVCJUS

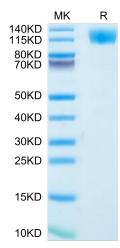
Cat. No. OSM-HM101

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Description	
Source	Recombinant Human OSMR beta Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Glu28-Met740.
Accession	Q99650-1
Molecular Weight	The protein has a predicted MW of 82.2 kDa. Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation an	d Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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	

OSMR is targeted to the mitochondrial matrix via the presequence translocase-associated motor complex components, mtHSP70 and TIM44. OSMR interacts with NADH ubiquinone oxidoreductase 1/2 (NDUFS1/2) of complex I and promotes mitochondrial respiration. Deletion of OSMR impairs spare respiratory capacity, increases reactive oxygen species, and sensitizes BTSCs to IR-induced cell death.

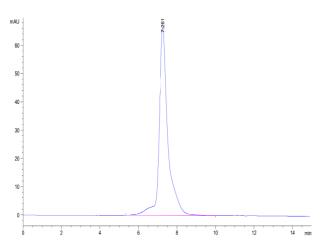
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Human OSMR beta Protein

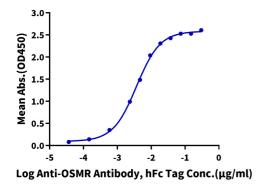
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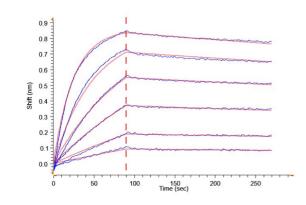
ELISA Data

BLI Data

Human OSMR beta, His Tag ELISA 0.1µg Human OSMR beta, His Tag Per Well



Immobilized Human OSMR beta, His Tag at 1μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-OSMR Antibody, hFc Tag with the EC50 of 3.7ng/ml determined by ELISA.



Loaded Anti-OSMR Ab., hFc-Avi Tag on ProA-Biosensor can bind Human OSMR beta, His Tag with an affinity constant of 2.48 nM as determined in BLI assay (Gator® Prime).

