

Human OSMR beta Protein



Cat. No. OSM-HM101

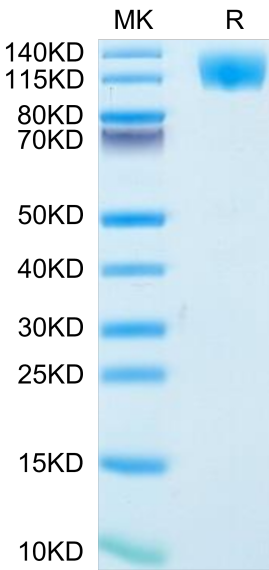
Description	
Source	Recombinant Human OSMR beta Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu28-Met740.
Accession	Q99650-1
Molecular Weight	The protein has a predicted MW of 82.2 kDa. Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 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 lyophilization.
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 receipt. -80°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

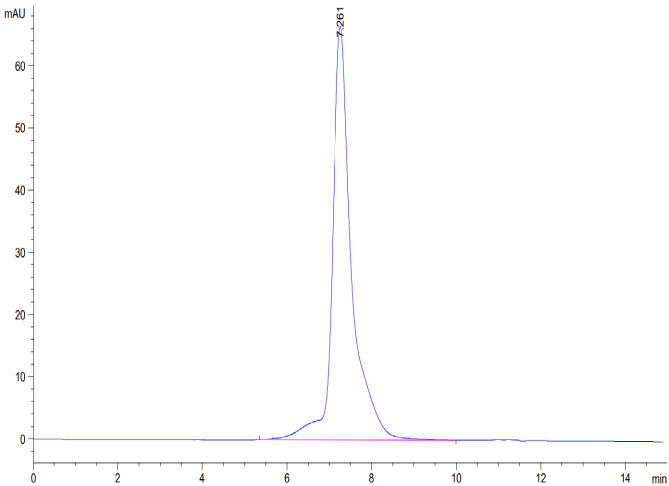
Bis-Tris PAGE



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

SEC-HPLC

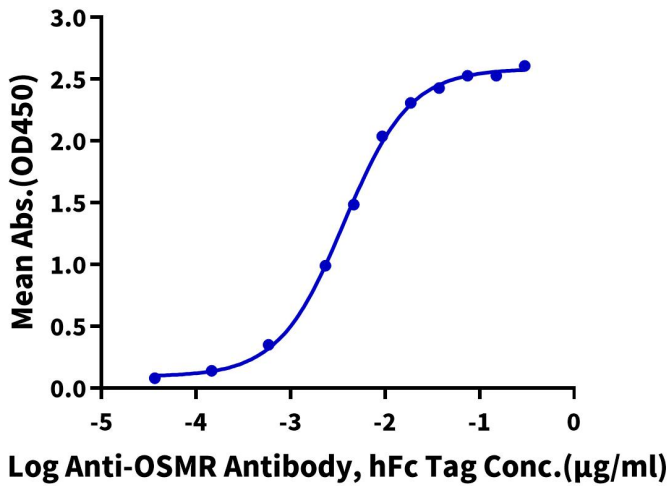
Assay Data



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

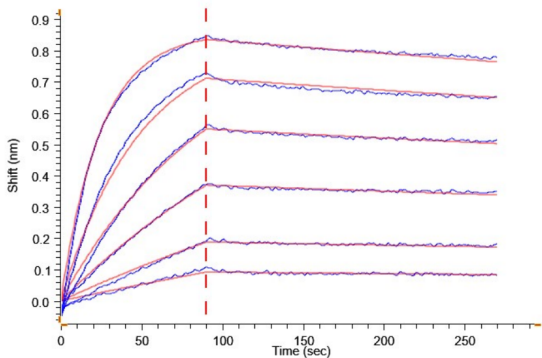
ELISA Data

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



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

BLI Data



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).