

Human OSMR Protein

Cat. No. OSM-HM10D

Description

Source	Recombinant Human OSMR Protein is expressed from HEK293 with His tag at the C-terminus. It contains Glu28-Val236.
Accession	Q99650-1
Molecular Weight	The protein has a predicted MW of 25.09 kDa. Due to glycosylation, the protein migrates to 40-60 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 and Storage

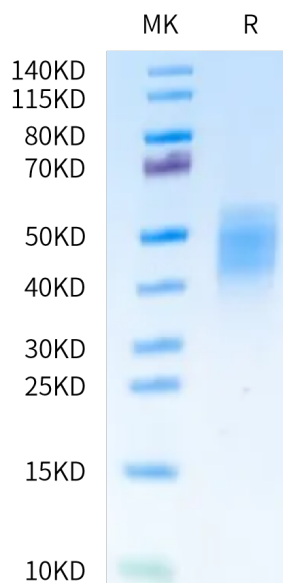
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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

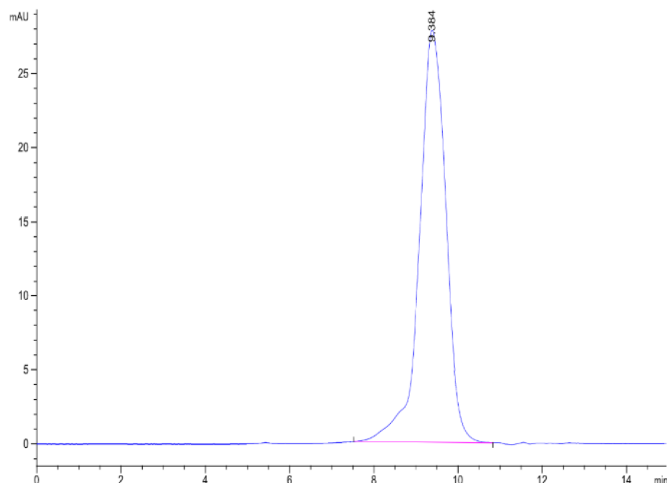
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

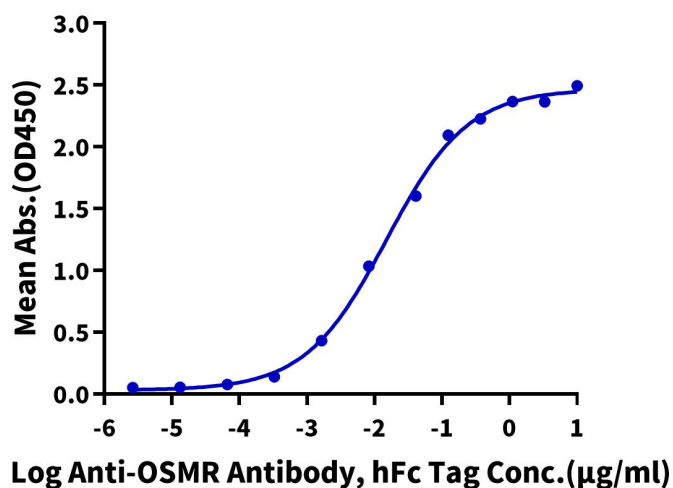


The purity of Human OSMR is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human OSMR, His Tag ELISA

0.05µg Human OSMR, His Tag Per Well



Immobilized Human OSMR, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-OSMR Antibody, hFc Tag with the EC50 of 15.1ng/ml determined by ELISA.