Human OSMR Protein

Cat. No. OSM-HM20D

Description

Source	Recombinant Human OSMR Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Glu28-Val236.
Accession	Q99650-1
Molecular Weight	The protein has a predicted MW of 49.94 kDa. Due to glycosylation, the protein migrates to 60-80 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

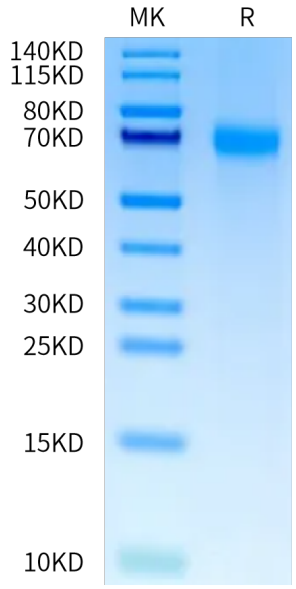
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days 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

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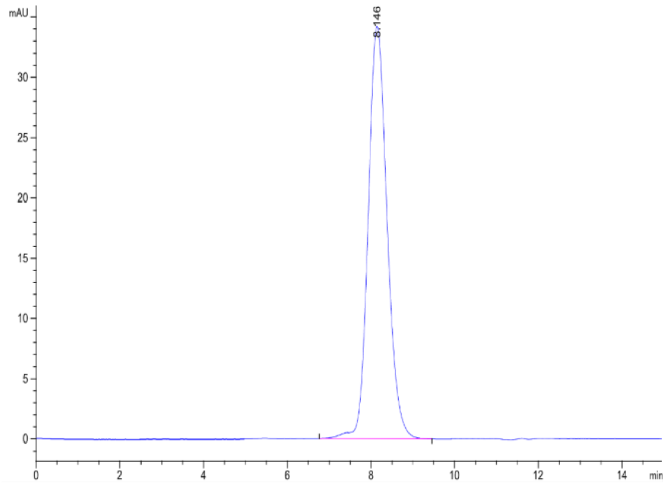
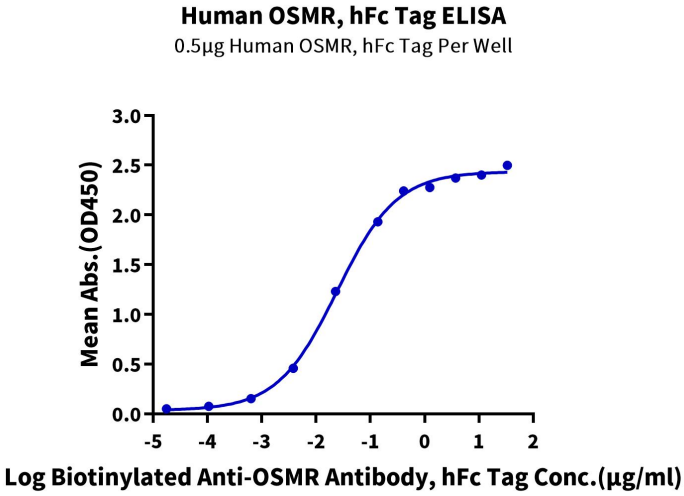
Assay Data



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

ELISA Data



Immobilized Human OSMR, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-OSMR Antibody, hFc Tag with the EC50 of 24.4ng/ml determined by ELISA.

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