

Cynomolgus OSMR Protein

Cat. No. OSM-CM101



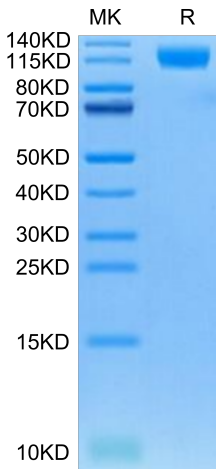
Description	
Source	Recombinant Cynomolgus OSMR Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu28-Ser737.
Accession	A0A2K5UFW5
Molecular Weight	The protein has a predicted MW of 82.04 kDa. Due to glycosylation, the protein migrates to 110-130 kDa based on Bis-Tris PAGE 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 0.22 µm 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.	

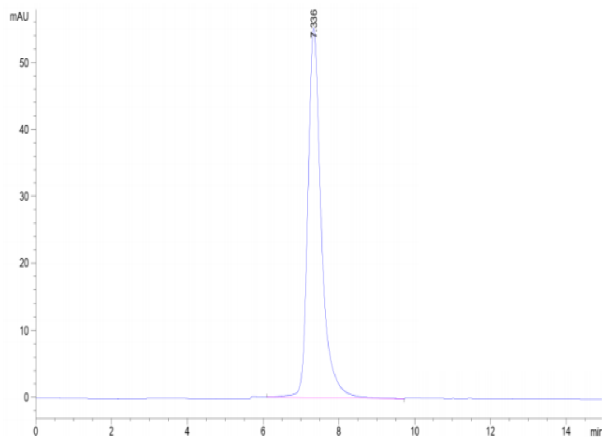
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



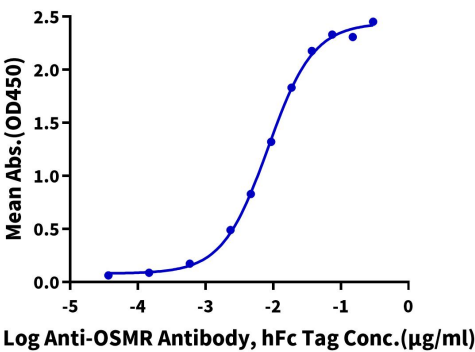
The purity of Cynomolgus OSMR is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

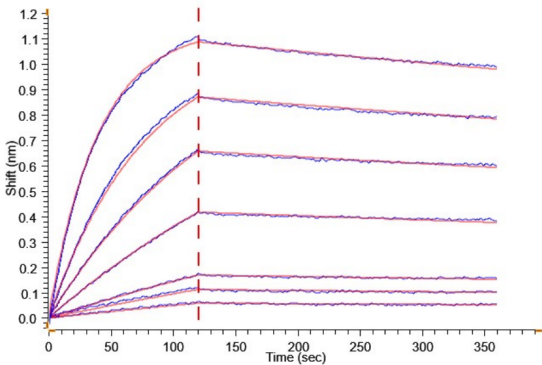
Cynomolgus OSMR, His Tag ELISA

0.2µg Cynomolgus OSMR, His Tag Per Well



Immobilized Cynomolgus OSMR, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-OSMR Antibody, hFc Tag with the EC50 of 8.4 ng/ml determined by ELISA.

BLI Data



Loaded Anti-OSMR Antibody, hFc Tag on ProA-Biosensor can bind Cynomolgus OSMR, His Tag with an affinity constant of 1.75 nM as determined in BLI assay (Gator® Prime).