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Datasheet for ABIN7275383

Oncostatin M Receptor Protein (OSMR) (AA 28-737) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	Oncostatin M Receptor (OSMR)
Protein Characteristics:	AA 28-737
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Oncostatin M Receptor protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus OSMR Protein
Sequence:	Glu28-Ser737
Characteristics:	Recombinant Cynomolgus OSMR Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu28-Ser737.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Cynomolgus OSMR, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-OSMR Antibody, hFc Tag with the EC50 of 14.4ng/ml determined by ELISA. See testing image for detail.

Target Details

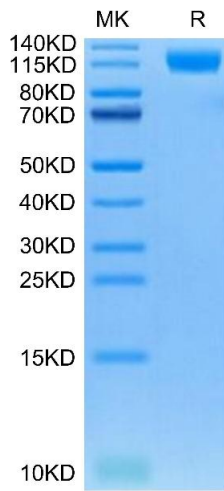
Target:	Oncostatin M Receptor (OSMR)
Alternative Name:	OSMR (OSMR Products)
Background:	OSMR is targeted to the mitochondrial matrix via the presequence translocase-associated motor complex components, mtHSP70 and TIM44. OSMR interacts with NADH ubiquinone oxidoreductase 1/2 (NDUFS1/2) of complex I and promotes mitochondrial respiration. Deletion of OSMR impairs spare respiratory capacity, increases reactive oxygen species, and sensitizes BTSCs to IR-induced cell death.
Molecular Weight:	82.04 kDa. Due to glycosylation, the protein migrates to 110-130 kDa based on Tris-Bis PAGE result.
UniProt:	A0A2K5UFW5
Pathways:	JAK-STAT Signaling , Growth Factor Binding

Application Details

Restrictions:	For Research Use only
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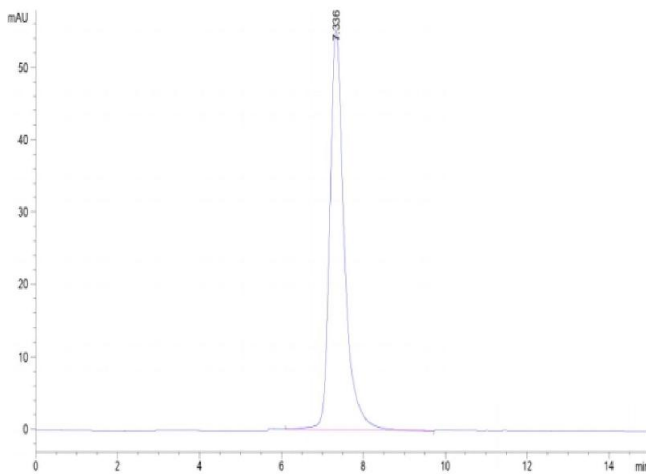
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months



SDS-PAGE

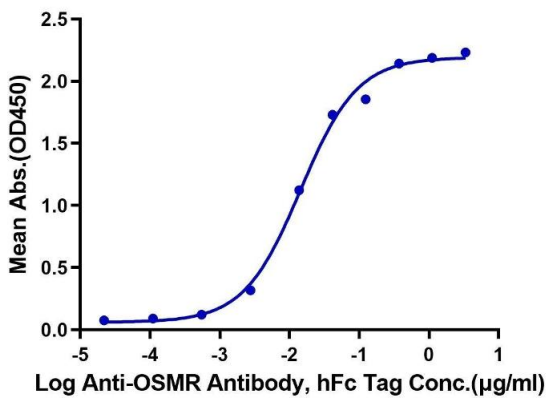
Image 1. Cynomolgus OSMR on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus OSMR is greater than 95 % as determined by SEC-HPLC.

Cynomolgus OSMR, His Tag ELISA
0.2µg Cynomolgus OSMR, His Tag Per Well



ELISA

Image 3. 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 14.4 ng/mL determined by ELISA.