

Biotinylated Human OSMR beta Protein



Cat. No. OSM-HM001B

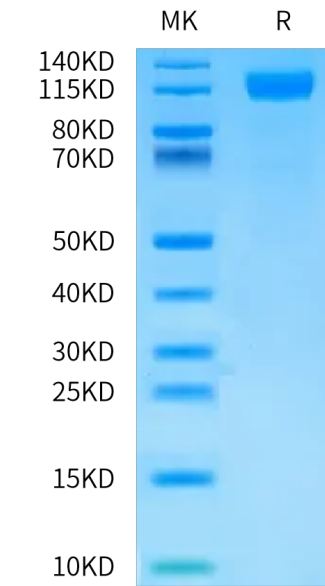
| Description | |
|------------------|---|
| Source | Recombinant Biotinylated Human OSMR beta Protein is expressed from HEK293 with Avi tag at the C-terminus. It contains Glu28-Met740. |
| Accession | Q99650-1 |
| Molecular Weight | The protein has a predicted MW of 82.93 kDa. Due to glycosylation, 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 > 90% 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



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

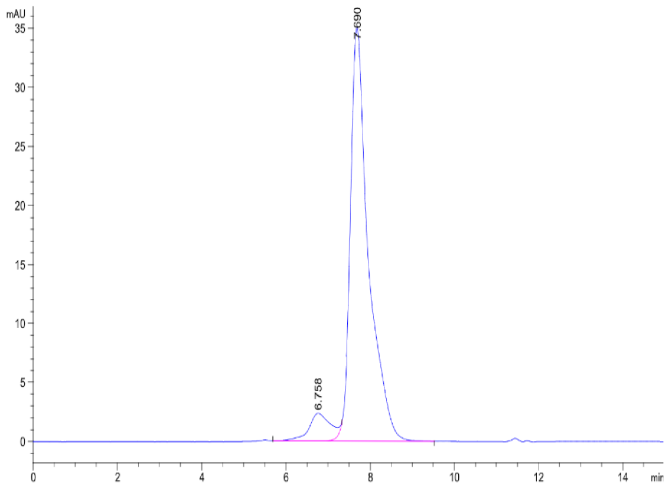
SEC-HPLC

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Assay Data

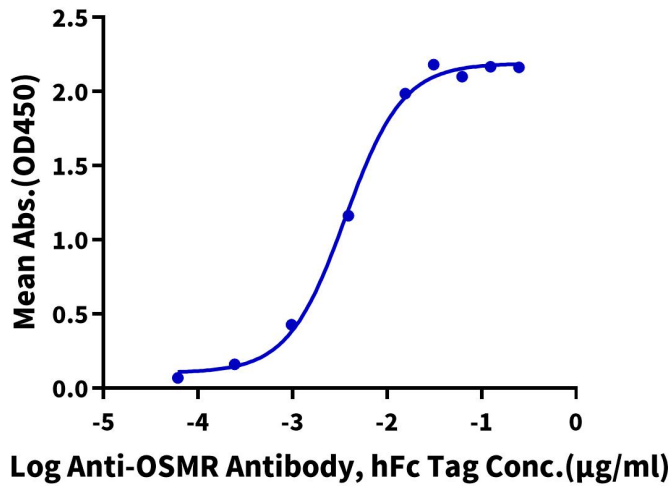


The purity of Biotinylated Human OSMR beta is greater than 90% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human OSMR, Avi Tag ELISA

0.05µg Biotinylated Human OSMR, Avi Tag Per Well



Immobilized Biotinylated Human OSMR beta, Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-OSMR Antibody, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA (QC Test).