Human gp130 & OSMR Heterodimer Protein, His Tag (MALS verified)

Catalog # GPR-H52H3

Synonym

gp130 & OSMR

Source

Human gp130 & OSMR Heterodimer Protein, His Tag (GPR-H52H3) is expressed from human 293 cells (HEK293). It contains AA Glu 23 - Glu 619 & Glu 28 - Met 740 (Accession # P40189-1 & Q99650-1).

Predicted N-terminus: Glu 23

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 151.8 kDa. The protein migrates as 170-230 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a heterodimer.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

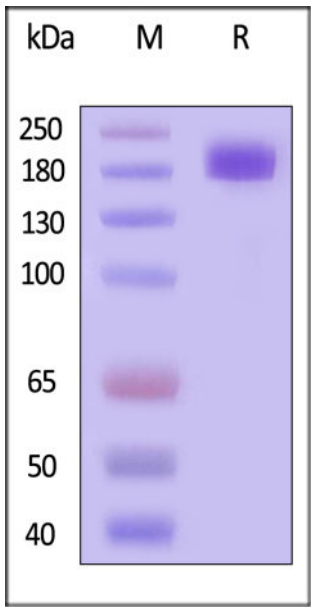
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

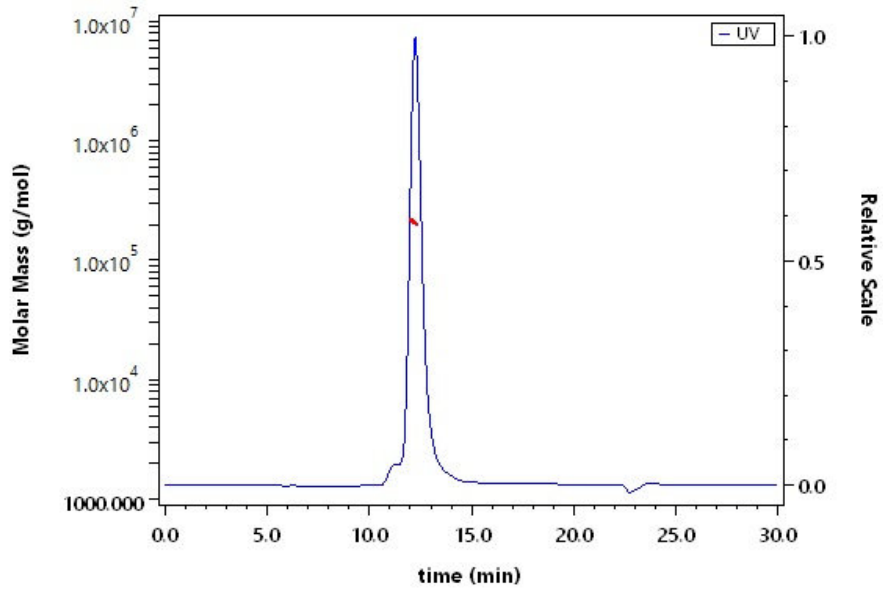
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



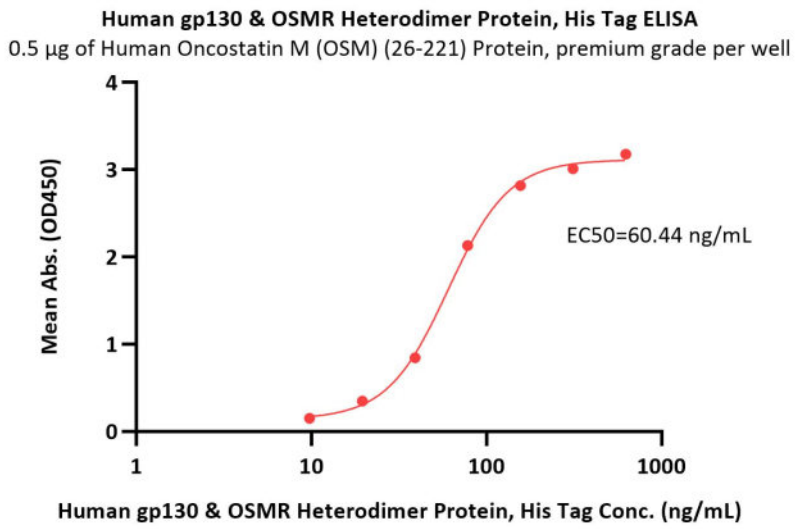
Human gp130 & OSMR Heterodimer Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



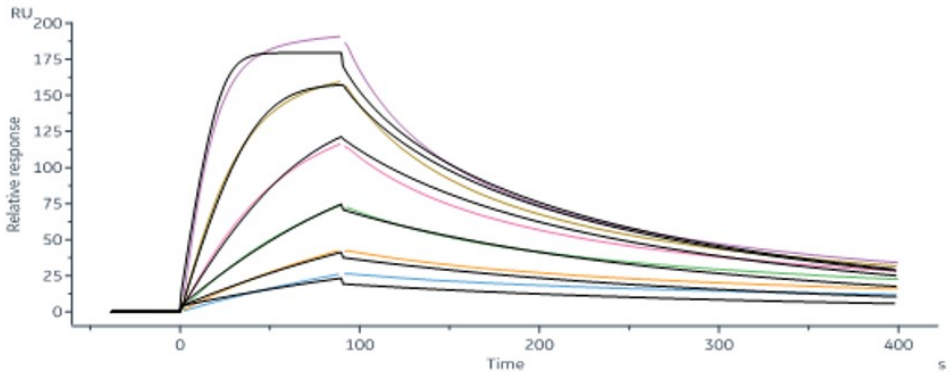
The purity of Human gp130 & OSMR Heterodimer Protein, His Tag (Cat. No. GPR-H52H3) is more than 90% and the molecular weight of this protein is around 170-230 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human Oncostatin M (OSM) (26-221) Protein, premium grade (Cat. No. OSM-H5214) at 5 μg/mL (100 μL/well) can bind Human gp130 & OSMR Heterodimer Protein, His Tag (Cat. No. GPR-H52H3) with a linear range of 10-156 ng/mL (QC tested).

Bioactivity-SPR



Human gp130 & OSMR Heterodimer Protein, His Tag (Cat. No. GPR-H52H3) immobilized on CM5 Chip can bind Human Oncostatin M (OSM) (26-221) Protein, premium grade (Cat. No. OSM-H5214) with an affinity constant of 5.3 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

OSM signaling on responsive cells is mediated by binding to two distinct signaling receptor complexes identified as type I and type II OSM receptors. Type II OSM receptor (gp130/OSMRβ) is a heterodimer composed of gp130 and OSM receptor β subunit. The type II receptor has OSM specificity. This receptor triggers the activation of associated Janus kinases (JAKs), leading primarily to the phosphorylation and activation of the Signal Transducer and Activator of Transcription 3 (STAT3) pathway.