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Product Sheet

Human OSMR beta Protein; hFc Tag

GM-88596RP-100 / 100 μg
GM-88596RP-1000 / 1 mg

Product Information

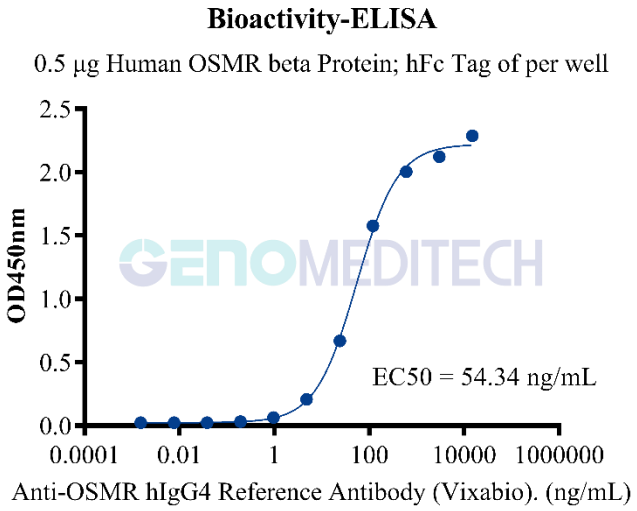
Product Name	Human OSMR beta Protein; hFc Tag
Source	Human OSMR beta Protein; hFc Tag (GM-88596RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 28 - Met 740 (Accession # Q99650-1). This protein carries a hFc tag at the C-terminus.
Predicted MW	107.1 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	Oncostatin-M-specific receptor subunit beta, Interleukin-31 receptor subunit beta, IL-31 receptor subunit beta, IL-31R subunit beta, IL-31R-beta, IL-31RB, OSMR, OSMRB
Background	OSMRβ (oncostatin M receptor β), encoded on chromosome 5p13.1, is a type I cytokine receptor and the shared signaling subunit of two receptor complexes. Its ectodomain contains four fibronectin type III domains required for dimerization, followed by a single transmembrane helix and a cytoplasmic tail with JAK-docking motifs. OSMRβ heterodimerizes with gp130 to form the type II receptor for oncostatin M and with IL-31 receptor α to form the IL-31 receptor. Ligand-induced dimerization activates JAK1 and JAK2, phosphorylating STAT1, STAT3 and STAT5 and engaging MAPK and PI3K–AKT cascades. These pathways control inflammation, tissue remodeling and hematopoiesis, while IL-31-driven signaling mediates cutaneous inflammation and pruritus. Heterozygous missense variants in the fibronectin domains cause familial primary localized cutaneous amyloidosis.

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For research use only!

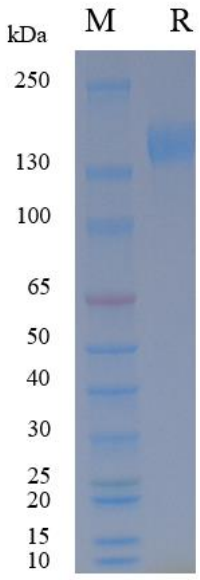
Data

Affinity



Human OSMR beta Protein; hFc Tag (Catalog # GM-88596RP) was immobilized at 5 μg/ml (100 μl/well). Increasing concentrations of Anti-OSMR hIgG4 Reference Antibody (Vixabio) (Catalog # GM-88055MAB) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

IL-6	
GP130 Reporter 293 Cell Line	H_IL-6 Reporter 293 Cell Line
Anti-IL-6 hIgG1 Reference Antibody (Clazabio)	Anti-IL-6 hIgG1 Reference Antibody (Siltubio)
Anti-IL6R hIgG1 Antibody(tocilizumab)	
Cynomolgus IL-6 Protein; His Tag	Human IL-6 Protein; hFc Tag

Human IL-6 Protein; His Tag	Human IL-6RA Protein; hFc Tag
Human IL-6RA Protein; His Tag	
OSM	
H_OSMR Reporter 293 Cell Line	
Cynomolgus OSMR Protein; His Tag	Human OSMR beta Protein; His Tag

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