

Human OSMR beta Protein; His Tag

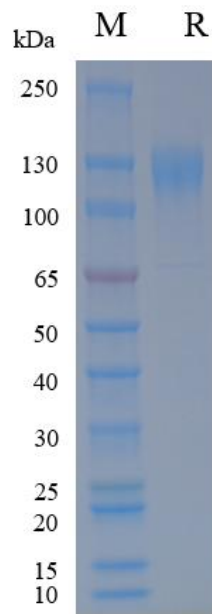
Product Information

Product Name	Human OSMR beta Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88108RP-100 / 100 μg GM-88108RP-1000 / 1 mg

Protein Information

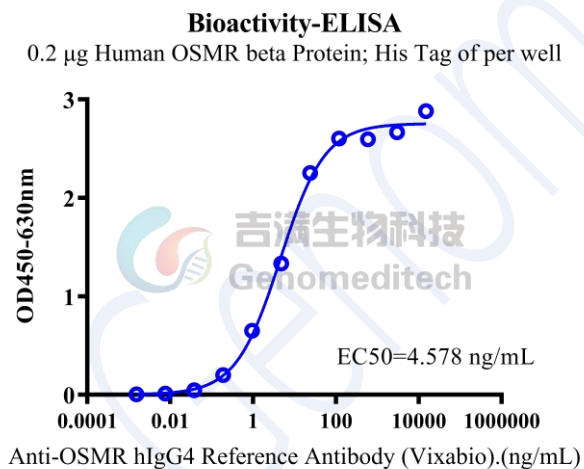
Alternative Names	IL-31R-beta, IL-31RB, OSMR, OSMRB
Source	Human OSMR beta Protein; His Tag (GM-88108RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 28 - Met 740 (Accession # Q99650-1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	82.0 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>IL-31 is a cytokine primarily secreted by immune cells, especially Th2 cells, belonging to the IL-6 cytokine family. It is mainly associated with allergic and inflammatory responses. IL-31 exerts its regulatory function by binding to its receptor, OSMR (Oncostatin M Receptor), which is expressed on nerve cells, skin cells, and immune cells. It plays a key role in causing itching and chronic skin conditions such as dermatitis, making it an important factor in studying the mechanisms of allergic skin diseases.</p> <p>As the main receptor for IL-31, OSMR activates intracellular JAK/STAT signaling pathways upon binding IL-31, thereby regulating immune responses and cell functions. This receptor is widely expressed in various tissues, including the skin, immune system, and nervous system. Due to the central role of IL-31 and OSMR in inflammation and skin diseases, research on this pathway offers potential for developing new therapies for allergic skin conditions and immune disorders.</p>

SDS-PAGE

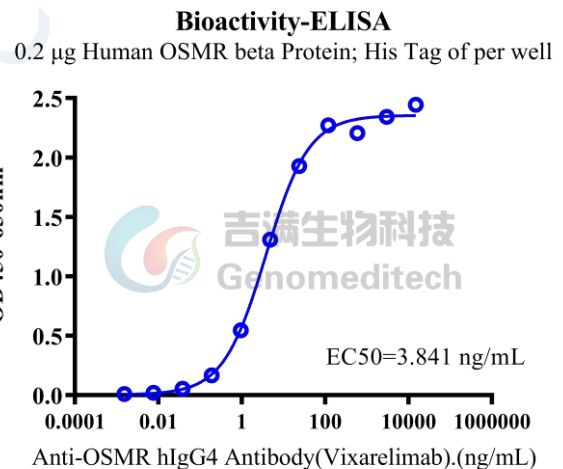


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Human OSMR beta Protein; His Tag (Catalog # GM-88108RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-OSMR hIgG4 Reference Antibody (Vixabio) (Catalog # GM-88055MAB) were added.



Human OSMR beta Protein; His Tag (Catalog # GM-88108RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-OSMR hIgG4 Antibody (Vixarelimab) (Catalog # GM-50874AB) were added.