

Human IL-1RL1(IL-33R)Protein; His Tag

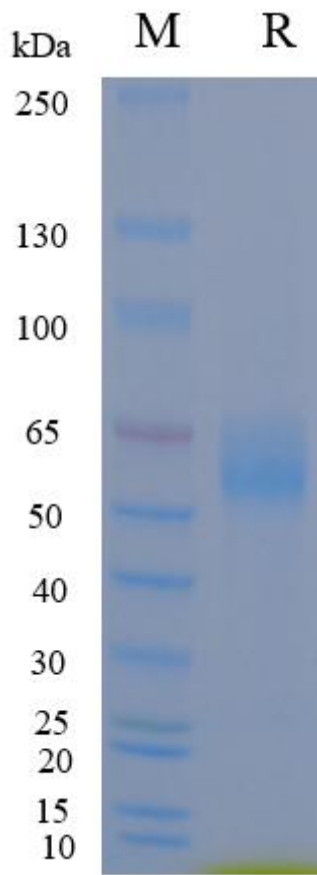
Product Information

Product Name	Human IL-1RL1(IL-33R)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-88671RP-100 / 100 μg GM-88671RP-1000 / 1 mg

Protein Information

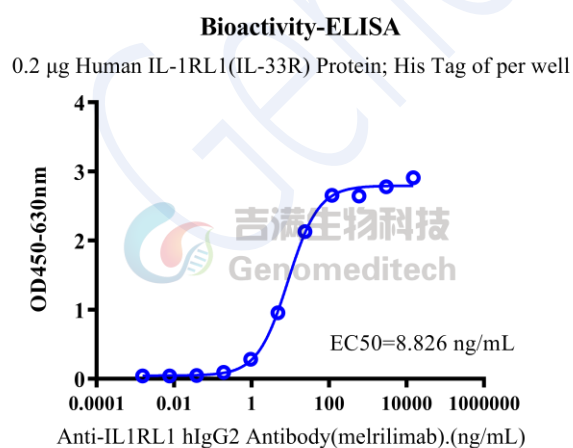
Alternative Names	DER4, FIT-1, IL33R, ST2, ST2L, ST2V, T1
Source	Human IL-1RL1(IL-33R)Protein; His Tag (GM-88671RP) is expressed from human 293 cells (HEK-293). It contains AA Lys 19 - Pro 323 (Accession # NP_003847). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	35.2 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-1RL1 protein, full name Interleukin-1 Receptor-Like 1, also known as ST2, is an important cell surface transmembrane receptor protein and a member of the Toll-like/IL-1 receptor (TIR) superfamily. Abnormal expression or dysregulated signaling of IL-1RL1 protein is closely associated with the pathogenesis and progression of various inflammatory, fibrotic, and allergic diseases, particularly asthma, atopic dermatitis, idiopathic pulmonary fibrosis, and cardiovascular diseases. Currently, several IL-1RL1-targeted therapeutic strategies have been developed or are under clinical investigation. These include monoclonal antibodies such as Etokimab and Itepekimab, which block IL-33 binding to IL-1RL1; and biosimilar antibodies targeting the IL-33/ST2 axis, which aim to reduce inflammation and improve clinical outcomes for patients with allergic, inflammatory, and fibrotic diseases. In summary, IL-1RL1 protein plays a pivotal role in the development and progression of inflammatory, fibrotic, and allergic diseases, and is of great significance for understanding disease pathogenesis, selecting targeted treatment strategies, and evaluating patient prognosis.

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 95%.

Bioactivity-ELISA



Human IL-1RL1(IL-33R)Protein; His Tag (Catalog # GM-88671RP) was immobilized at 2 µg/ml (100 µL/well).
Increasing concentrations of Anti-IL1RL1 hIgG2Antibody (melrilimab) (Catalog # GM-88366AB) were added.