Recombinant ILRL2 protein (His tag)

Catalog Number	548281
Synonyms	IL-36 receptor; IL-36R; Interleukin-1 receptor-related protein 2; IL-1Rrp2; IL1R-rp2
Species	Human
Expression System	E. coli
Accession	Q9HB29
Molecular Weight	Predictes a molecular mass of 37.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	20-335
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 20-335 aa (Q9HB29) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Interleukin-1 receptor-like 2 (IL-36R) fragment (amino acids 20-335) from Homo sapiens, encompassing the complete Ig-like C2-type domains 1-3. This high-purity protein is an essential tool for investigating IL-36 signaling mechanisms, receptor-ligand interactions, and inflammatory pathway activation in epithelial and skin immunology research. Interleukin-1 receptor-like 2 (IL-36R) functions as the specific receptor for interleukin-36 cytokines (IL36A, IL36B, and IL36G). Upon ligand binding, it associates with the coreceptor IL1RAP to form the interleukin-36 receptor complex, activating NF-κB, MAPK, and other signaling pathways. This receptor system operates primarily in epithelial barriers and contributes to local inflammatory responses, particularly in skin inflammation through induction of the IL-23/IL-17/IL-22 pathway. As a single-pass type I membrane protein, IL-36R is positioned at the cell surface to mediate extracellular signaling events that mirror the broader IL-1 inflammatory system.