

Animal-Free IL-36RN Protein, Mouse (His)

Cat. No.:	HY-P700212AF
Synonyms:	IL-36RA; IL-36RA; Interleukin-36 Receptor Antagonist Protein; IL-1RP3; Interleukin-1; Interleukin-1 Family Member 5; IL-1F5; Interleukin-1-Like Protein 1; IL-1L1; IL36RN; FIL1D; IL1F5; IL1HY1; IL1RP3
Species:	Mouse
Source:	E. coli
Accession:	Q9QYY1 (M2-D156)
Gene ID:	54450
Molecular Weight:	Approximately 17.81 kDa

PROPERTIES

AA Sequence	M V L S G A L C F R M K D S A L K V L Y L H N N Q L L A G G L H A E K V I K G E E I S V V P N R A L D A S L S P V I L G V Q G G S Q C L S C G T E K G P I L K L E P V N I M E L Y L G A K E S K S F T F Y R R D M G L T S S F E S A A Y P G W F L C T S P E A D Q P V R L T Q I P E D P A W D A P I T D F Y F Q Q C D
Biological Activity	Measure by its ability to inhibit IL-36 gamma-induced IL-6 secretion in 3T3 cells. The ED ₅₀ for this effect is <2 µg/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The IL-36RN Protein acts as an inhibitor by binding to the interleukin-36 (IL36A, IL36B, and IL36G) receptor IL1RL2/IL-36R, preventing its association with the coreceptor IL1RAP and inhibiting downstream signaling. This protein is a crucial component of the IL-36 signaling system, which is implicated in local inflammatory responses, particularly in epithelial barriers. Proposed to play a role in skin inflammation and contribute to the innate immune response against fungal pathogens, the IL-36RN Protein may activate an anti-inflammatory signaling pathway by recruiting SIGIRR. Notably, it interacts with the cargo receptor TMED10, facilitating translocation from the cytoplasm to the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) for secretion.
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Caution: Product has not been fully validated for medical applications. For research use only.

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