Animal-Free IL-1F10/IL-38 Protein, Mouse (His)

Cat. No.:	HY-P700213AF
Synonyms:	interleukin 1 family; member 10; IL1F10
Species:	Mouse
Source:	E. coli
Accession:	Q8R459 (M1-R152)
Gene ID:	215274
Molecular Weight:	Approximately 17.89 kDa

PROPERTIES

AA Sequence	M C S L P M A R Y Y I I K D A H Q K A L Y T R N G Q L L L G D P D S D N Y S P E K V C I L P N R G L D R S K V P I F L G M Q G G S C C L A C V K T R E G P L L Q L E D V N I E D L Y K G G E Q T T R F T F F Q R S L G S A F R L E A A A C P G W F L C G P A E P Q Q P V Q L T K E S E P S T H T E F Y F E M S R
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	IL-1F10/IL-38 Protein, exhibiting immunomodulatory activity, operates by influencing cytokine production. While it does not independently induce cytokine production, it plays a regulatory role in the immune response. Notably, IL-1F10/IL-38 reduces IL22 and IL17A production by T-cells in response to heat-killed Candida albicans, indicating its ability to modulate specific immune pathways. Moreover, it diminishes IL36G-induced production of IL8 by peripheral blood mononuclear cells, highlighting its broader impact on cytokine responses. Conversely, IL-1F10/IL-38 increases IL6 production by dendritic cells stimulated by bacterial lipopolysaccharides (LPS), suggesting its involvement in diverse immune processes. Functioning as a ligand for IL-36R/IL1RL2, IL-1F10/IL-38 engages in intricate interactions, and its binding with the cargo receptor TMED10 facilitates translocation from the cytoplasm into the endoplasmic reticulum-Golgi intermediate compartment (ERGIC), leading to subsequent secretion.

Caution: Product has not been fully validated for medical applications. For research use only.

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