

Recombinant Mouse Interleukin-36 gamma protein(IL36g) (Active)

Catalog No: #AP73494

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Package Size: #AP73494-1 10ug #AP73494-2 100ug #AP73494-3 250ug #AP73494-4 500ug

#AP73494-5 1mg

Description

Product Name	Recombinant Mouse Interleukin-36 gamma protein(IL36g) (Active)
Brief Description	Recombinant Mouse Interleukin-36 gamma protein(IL36g) (Active)
Host Species	E.coli
Purification	>98% as determined by SDS-PAGE and HPLC.
Other Names	Interleukin-1 family member 9
Accession No.	Swiss-Prot#:Q8R460
Uniprot	Q8R460
Calculated MW	17.3 kDa
Tag Info	NO-tagged
Target Sequence	FGEV FLDLQQVWIF RNQALVTVPR SHRVTVPVSVT ILPCKYPESL EQDKGIAIYL GIQNPDKCLF CKEVNGHPTL LLKEEKILDY YHHPEPMKPF LFYHTRTGGT STFESVAFPG HYIASSKTGN PIFLTSKKGE YYNINFNLDI KS
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.

Application Details

Storage Buffer: 0.2 m filtered 20 mM Tris-HCl, pH 8.5, 150mM NaCl with Tween-20 ,lyophilized

Activity: Fully biologically active when compared to standard. The ED50 as determined by inducing IL-6 secretion in murine NIH/3T3 cells is less than 10 ng/ml, corresponding to a specific activity of 1.0×10^5 IU/mg.

Relevance: Function as an agonist of NF-kappa B activation through the orphan IL-1-receptor-related protein 2/IL1RL2. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP (By similarity). Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and indirectly on T cells to drive tissue infiltration, cell maturation and cell proliferation. May play a role in proinflammatory responses during particular neutrophilic airway inflammation. May be involved in the innate immune response to fungal pathogens. Induces the production of proinflammatory cytokines in bone marrow-derived dendritic cells (BMDCs), including IL-12, IL-1 beta, IL-6, TNF-alpha and IL-23. Involved in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II. Induces the production of IFN-gamma, IL-4 and IL-17 by cultured CD4(+) T cells and splenocytes. {ECO:0000250|UniProtKB:Q9NZH8, ECO:0000269|PubMed:21860022, ECO:0000269|PubMed:21965679}.

Product Description

Expression Region: 13-164aa

Gene Names: IL36g, IL1f9

Organism: Mus musculus (Mouse)

Sequence Info : Full Length of Mature Protein

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

References

PubMed ID: 11991723; 15489334; 21860022; 21965679

Note: This product is for in vitro research use only