
Product Data Sheet

Product Name: IL36G Mouse
 Cat. No.: GP20669
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-36 gamma; Interleukin-1 family member 9; IL-1F9; IL36g; IL1f9.		
Amino Acid Sequence	GRETPDFGEV FDLQVWIF RNQALVTVPR SHRVTVPVSVT ILPCKYPESL EQDKGIAIYL GIQNPDKCLF CKEVNGHPTL LLKEEKILDY YHHPEPMKPF LFYHTRTGGT STFESVAFPG HYIASSKTGN PIFLTSKKGE YYNINFNLDI KS.		
Solubility	It is recommended to reconstitute the lyophilized IL36g in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.5, 150mM NaCl and Tween-20.		

Introduction

IL-36gamma belongs to the IL-1 family which includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36 Ra (IL-1F5), IL-36a (IL-1F6), IL-36b (IL-1F8), IL-37 (IL-1F7) and IL-1F10.). The IL-1 family members display a 12 b-strand, b-trefoil configuration, and are thought to have ascended from a mutual ancestral gene. IL-36g is an 18-22 kDa, 169aa intracellular and secreted protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation sites. Human IL-36g shares 58%- 69% aa sequence homology with mouse, rat, bovine and equine IL-36g, and 23 - 57% aa sequence homology with other family members. The IL-36g receptor is a mixture of IL-1 Rrp2, mostly located in epithelia and keratinocytes, and the extensively expressed IL-1 RAcP. All IL-36 (a, b and g) activate NF-κB and MAPK pathways in an IL-1 Rrp2 dependent reaction. Additionally, IL-36g induces production of inflammatory cytokines and chemokines like CXCL8/IL-8.

Biological Activity

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

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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 $> 1.06 \times 10^5$ IU/mg.

Stability

Lyophilized IL36gMouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL36g should be stored at 4°C between 2-7 days and for future use below -18°C . Please prevent freeze-thaw cycles.

Background

IL36G Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17.3kDa. The IL36G is purified by proprietary chromatographic techniques.

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