
Product Data Sheet

Product Name: IL36G Human His
 Cat. No.: GP20668
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin 36 gamma; IL1F9; interleukin 1 family member 9; Interleukin-1 epsilon; IL-1RP2; IL-1H1; IL1E; interleukin 1-related protein 2; Interleukin-1 homolog 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMRGTPGD ADGGGRAVYQ SMCKPITGTI NDLNQQVWTL QGQNLVAVPR SDSVTPVTVA VITCKYPEAL EQGRGDPIYL GIONPEMCLY CEKVGEQPTL QLKEQKIMDL YGQPEPVKPF LFYRAKTGRT STLESVAFPD WFIASSKRDQ PIILTSELGK SYNTAFELNI ND		
Formulation	The IL36G solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

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- κ B and MAPK pathways in an IL-1 Rrp2 dependent reaction. Additionally, IL-36g induces production of inflammatory cytokines and chemokines like CXCL8/IL-8.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

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

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Background

IL36G Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 192 amino acids (1-169) and having a molecular mass of 21.1kDa.

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