9051 Mira Mesa Blvd, #910094
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IL36G 152 a.a. Human

Interleukin-36 Gamma (152 a.a) Human Recombinant
CYK0441

Product Overview

Name	IL36G 152 a.a. Human
Description	
Interleukin-36 Gamma (152 a.a) Human Recombinant	
Accession (Primary)	Q9NZH8
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.	
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 N F-?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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered concentrated solution in 1×PBS, pH 7.4, containing 5% trehalose.	
Stability	
Lyophilized IL36g Human 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.	
Purity	

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Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

SMCKPITGTI NDLNQQVWTL QGQNLVAVPR SDSVTPVTVA VITCKYPEAL EQGRGDPIYL GIQNPEMCLY CEKVGEQPTL QLKEQKIMDL YGQPEPVKPF LFYRAKTGRT STLESVAFPD WFIASSKRDQ PIILTSELGK SYNTAFELNI ND

Biological Activity

Fully biologically active when compared to standard. The ED50 as measured by its ability to induce IL-8 secretion in human preadipocytes is less than 15ng/ml, corresponding to a Specific Activity of 67,000 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IL36g in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL36G 152 a.a. Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NZH8)