

32-1532: IL36G Recombinant Protein

Alternative Name : 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.

Description

Source : Escherichia Coli. IL36G Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 169 amino acids and having a molecular mass of 18.7kDa.The IL36G is purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 10 µg
Purification : Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4 and 5% trehalose.
Storage condition : 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.
Amino Acid : MRGTPGDADG GGRAVYQSMC KPITGTINDL NQVWTLQGQ NLVAVPRSDS VTPVTVAVIT
 CKYPEALEQG RGDPIYLG IQ NP EMC LYCEK VGEQPTLQLK EQKIMDLYGQ PEPVKPFLFY RAKTGRTSTL
 ESVAFPDWFI ASSKRDQPII LTSELGKSYN TAFELNIND

Application Note

It is recommended to reconstitute the lyophilized IL36g in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Measured by its binding ability in a functional ELISA to bind recombinant human IL-1 Rrp2 Fc Chimera.

