

32-1525: IL36A Recombinant Protein

Alternative Name : Interleukin 36 alpha, FIL1E, IL1F6, FIL1, IL1(EPSILON), interleukin 1 family member 6 (epsilon), MGC129552, MGC129553.

Description

Source : Escherichia Coli. IL36A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 153 amino acids (aa 6-158) and having a molecular mass of 17.0kDa. The IL36A is purified by proprietary chromatographic techniques. Human IL-36a belongs to the IL-1 family which includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36ra (IL1F5), IL-36b (IL1F8), IL-36g (IL1F9), IL-37 (IL1F7) and IL-38 (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-36a is an 18-22kDa, 158aa intracellular and secreted protein which holds no signal sequence, no prosegment and no potential from N-linked glycosylation sites. IL-36a is released as a reaction to LPS and the cell ATP-induced activation of the P2X7 receptor. Human IL-36a (aa 6-158) shares 57-68% aa sequence homology with mouse, rabbit, equine and bovine IL-36a and 27-57% aa sequence homology with other new IL-1 family members. IL-36a is mostly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine.

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 20mM Tris-HCl, 150mM NaCl, 0.1% Tween 20, pH 8.0.
Storage condition : Lyophilized IL36A Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL36A should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid : KIDTPQQGSI QDINHRVWVL QDQTLIAVPR KDRMSPVTIA LISCRHVETL EKDRGNPIYL GLNGLNLCLM CAKVG DQPTL QLKEKDIMDL YNQPEPVKSF LFYHSQSGRN STFESVAFPG WFIASVSEGG CPLILTQELG KANTDFGLT MLF

Application Note

It is recommended to reconstitute the lyophilized IL36A in sterile 18MΩ·cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. 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 10ng/ml, corresponding to a Specific Activity of 100,000 IU/mg.

