

32-13659: IL34 Human

Format : Lyophilized from a sterile (0.2 μ) filtered solution containing phosphate buffered saline (PBS).

Alternative Name : Interleukin 34, C16orf77, MGC34647, IL34

Description

Source:CHO cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity: null

Interleukin 34 (IL34) is a cytokine that promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor and is a part of a group of cytokines called interleukins. IL34 increases growth or survival of immune cells known as monocytes. IL34 protein obtains its activity by binding the Colony stimulating factor 1 receptor. Interleukin 34 has also a potential part in viral infection, the adaptive immune response and bone marrow cell proliferation. Furthermore, IL34 plays an important role in innate immunity and in inflammatory processes.

IL34 Human Recombinant produced in CHO cells is a glycosylated homodimeric polypeptide chain containing 228 amino acids and having a total molecular mass of 26kDa. IL34 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 50 μ g / 10 μ g

Purification : Greater than 95.0% as determined by SDS-PAGE.

Storage condition : Lyophilized IL34 although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution IL34 Human should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid : NEPLEMWPLT QNEECTVTGF LRDKLYRSLR LQYMKHYFPI NYKISVPYEG VFRIANVTRLQRAQVSEREL RYLWVLVSLV ATESVQDVLV EGHPSWKYLQ EVETLLLNQV QGLTDVEVSPKVESVLSLLN APGPNLKLVR PKALLDNCFR VMELLYCSCC KQSSVLNWQD CEVSPQSCSPEPSLQYAAT QLYPPPPWSP SSPPHSTGVS RPVRAQGEGL LPHHHHHH

Application Note

It is recommended to reconstitute the lyophilized IL34 in sterile water at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.