



Interleukin-34, human recombinant (rHuIL-34)

Catalog No: 97659
Lot No: XXXXX
Source: *E.coli*
Synonyms: Interleukin 34, C16orf77, MGC34647, IL34

Background

Interleukin 34 (IL34) is a cytokine that promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor. It is 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 also plays a potential part in viral infection, the adaptive immune response and bone marrow cell proliferation. Furthermore, IL34 has an important role in innate immunity and in inflammatory processes.

Description

IL34 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 260 amino acids (21-242 aa). It has a molecular mass of 29.6 kDa. IL34 is fused to a 38 amino acid His-tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, colorless solution.

Formulation

The IL34 solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4 M urea.

Stability

Store at 4°C, if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMNE PLEMWPLTQN EECTVTGFLR DKLYRSRLQ YMKHYFPINY
KISVPYEGVF RIANVTRLQR AQVSERELRY LWWLVLSAT ESVDVLLEG HPSWKYLQEV QTLLNVQQG LTDVEVSPKV ESVLSLLNAP
GPNLKLVRPK ALLDNCFRVM ELLYCSCCKQ SSVLNWQDCE VPSPQSCSPE PSLQYAATQL YPPPPWSPSS PPHSTGSRVP
VRAQGEGLLP

Usage

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