

IL-34/C16orf77, Human, Recombinant

Cat. No. : PCK289

General Information

Synonyms	C16orf77;IL34
Species	Human
Expression host	E.coli
Sequence	MNEPLEMWPLTQNEECTVTGFLRDKLQYRSRLQYMKHYFPINYKISVPYEGVFRIANVTRLQR AQVSERELRYLWVLVSLSATSVQDVLLEGHPWKYLQEVETLLLNQGLTDVEVSPKVESV LSLLNAPGPNLKLVRPKALLDNCFRVMELLYCSCCKQSSVLNWQDCEVPSPQSCSPEPSLQYA ATQLYPPPPWSPSSPPHSTGSVRPVRAQGEGLLP with polyhistidine tag at the C-terminus.
Accession	Q6ZMJ4.1
Tag	His-tag at the C-terminus
Mol mass	26.17 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce human peripheral blood monocytes (PBMCs) proliferation. The ED50 for this effect is < 30 pg/mL.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin-34 (IL-34) is a protein that promotes the proliferation, survival and differentiation of monocytes and macrophages. It also promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. IL-34 plays an important role in the regulation of osteoclast proliferation and differentiation, and in the regulation of bone resorption. Signaling via CSF1R and its downstream effectors stimulates phosphorylation of MAPK1/ERK2 and MAPK3/ERK1.

SDS-PAGE

