

IL-34/2010004A03Rik, IL34, Mouse, Recombinant

Cat. No. : PCK329

General Information

Synonyms	2010004A03Rik;IL34
Species	Mouse
Expression host	E.coli
Sequence	MNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAPYEGVLRVANITRLQKA HVSERELRYLWVLVSLNATESVMDVLLEGHPSPWKYLQEVQTLEENVQRSLMDVEIGPHVEAVL SLLSTPGLSLKLVRPKALLDNCFRVMELLYCSCCKQSPILKWQDCELPRLPHSPGSLMQCTA TNVYPLSRQTPTSLPGSPSSSHGSLP with polyhistidine tag at the C-terminus.
Accession	Q8R1R4.1
Tag	His-tag at the C-terminus
Mol mass	25.52 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED50 for this effect is < 30 ng/mL. The specific activity of recombinant mouse IL-34 is > 3.3 × 10 ⁴ IU/mg.

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 7.4.
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

