

Recombinant Human IL-34 protein(His Tag)

Catalog Number:PKSH034117



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	C16orf77
Species	Human
Expression Host	E.coli
Sequence	Asn 21-Pro 242
Accession	Q6ZMJ4
Calculated Molecular Weight	26.2 kDa
Observed molecular weight	30 kDa
Tag	C-His
Bioactivity	Measure by its ability to induce human peripheral blood monocytes (PBMCs) proliferation. The ED ₅₀ for this effect is < 30 pg/mL.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS,pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

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.

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