IL-3/MCGF, Human, Recombinant

Cat. No. : PCK077

General Information

Synonyms	Interleukin-3;IL-3;Hematopoietic Growth Factor;Mast Cell Growth Factor;MCGF; Multipotential Colony-Stimulating Factor;P-Cell-Stimulating Factor;IL3
Species	Human
Expression host	E.coli
Sequence	Ala20-Phe152
Accession	P08700
Tag	6His tag at the N-terminus
Mol mass	16.6 KDa
Expiration date	12 months
Bio activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.05-0.3 ng/mL.

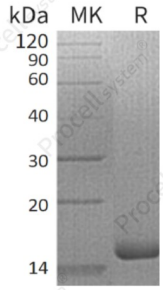
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 5% Sucrose, 0.05% Tween80, 4% Mannitol, pH 6.5.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

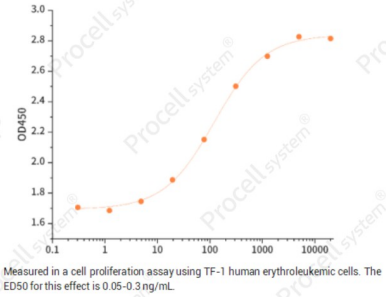
Background

Interleukin-3 (IL-3) is a potent growth promoting cytokine. IL-3 can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. IL-3 exerts its biological function through binding to specific cell surface receptors. The amino acid sequences of this protein among different species share relatively low identity and its activity is highly species-specific. IL-3 has also been shown to possess neurotrophic activity, and is thought to be associated with neurologic disorders.

SDS-PAGE



Bio activity



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.05-0.3 ng/mL.

Procell system®