

IL-11/AGIF, Human, Recombinant

Cat. No. : PCK361

General Information

Synonyms	AGIF (Adipogenesis Inhibitory Factor)
Species	Human
Expression host	E.coli
Sequence	PGPPPGPPRVSPDPRAELDSTVLLTRSLADTRQLAAQLRDKFPADGDHNLDSLPTLAMSAG ALGALQLPGVLTRLRADLLSYLRHVQWLRRAAGSSSLKTLEPELGTQLQARLDRLRLQLLMSRL ALPQPPDPAPPLAPPSSAWGGIRAAHAILGGLHLTLDWAVRGLLLKTRL with polyhistidine tag at the N-terminus.
Accession	P20809.1
Tag	His-tag at the N-terminus
Mol mass	19.95 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce T11 cells proliferation. The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant human IL-11 is approximately > 1 × 10 ⁷ 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 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

IL-11 is a cytokine and first isolated in 1990 from bone marrow-derived fibrocyte-like stromal cells. It was initially thought to be important for hematopoiesis, notably for megakaryocyte maturation, but subsequently shown to be redundant for platelets, and for other blood cell types, in both mice and humans. It is also known under the names adipogenesis inhibitory factor (AGIF) and was developed as a recombinant protein (rhIL-11) as the drug substance oprelvekin.

SDS-PAGE

