

IL-10/B-TCGF/CSIF/TGIF, Human, Recombinant

Cat. No. : PCK268

General Information

Synonyms	B-TCGF;CSIF;TGIF
Species	Human
Expression host	E.coli
Sequence	MSPGQGTQSENSCTHFGNLPNMLRDLRDAFSRVKTFQMKDQLDNLLLKESLLEDFKGYLG CQALSEMIQFYLEEVMQAENQDPDIKAHVNSLGENLKTLLRLRLRRCHRFLPCENKSKAVEQVK NAFNKLQEKGIIYKAMSEFDIFINYIEAYMTMKIRN with polyhistidine tag at the C-terminus
Accession	P22301.1
Tag	His-tag at the C-terminus
Mol mass	19.6 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce MC/9?2 cells proliferation. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant human IL-10 is approximately > 1×10 ⁶ IU/mg.

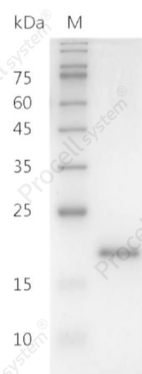
Product feature

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

Interleukin 10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans, interleukin 10 is encoded by the IL10 gene. IL-10 signals through a receptor complex consisting of two IL-10 receptor-1 and two IL-10 receptor-2 proteins. Consequently, the functional receptor consists of four IL-10 receptor molecules. IL-10 binding induces STAT3 signalling via the phosphorylation of the cytoplasmic tails of IL-10 receptor 1 + IL-10 receptor 2 by JAK1 and Tyk2 respectively.

SDS-PAGE



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