IL-4/BSF-1, Human, Recombinant

PCK031

BCGF, BCDF, B-cell Stimulating Factor (BSF-1)

Human

E.coli

MHKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKETFCRAATVL
RQFYSHHEKDTRCLGATAQQFHRHKQLIRFLKRLDRNLWGLAGLNSCPVK
EANQSTLENFLERLKTIMREKYSKCSS with polyhistidine tag at the C-terminus.

P05112.1

15.9 kDa

His-tag at the C-terminus

Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately >2.8 x 10^7 IU/mg.

>98% as determined by SDS-PAGE. Ni-NTA chromatography

<0.1 EU per 1 μg of the protein by the LAL method.

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.

Ambient temperature or ice pack.

The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.

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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.

The interleukin 4 (IL4, IL-4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. The cell that initially produces IL-4, thus inducing Th2 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. It is closely related and has functions similar to Interleukin 13.

SDS-PAGE

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