# 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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