

## PRODUCT INFORMATION

### Interleukin-4, human, recombinant (rhIL-4)

- **Catalog Number** PGR109
- **Source** The cDNA sequence of mature human IL-4 was expressed in a **Chinese hamster ovary cell line**.
- **Molecular Mass** The recombinant IL-4 contains 129 amino acid residues and the non-glycosylated form of IL-4 has a molecular mass of 14 kDa. The glycosylation of IL-4 increases the molecular mass and the glycosylated proteins migrate as 15 ~ 20 kDa in SDS-PAGE under reducing conditions.
- **Purity** > 97%, as determined by SDS-PAGE under reducing condition and visualized by silver stain.
- **Endotoxin Level** < 1.0 EU per 1  $\mu$ g of the recombinant IL-4 as determined by the LAL method.
- **Biological Activity** The biological activity of PanGen's recombinant human IL-4 was measured in a cell proliferation assay using TF-1 cells. The ED<sub>50</sub> for this effect is 0.05 ~ 0.2 ng/mL.
- **Formulation** The sterile filtered solution in PBS, pH 7.4, containing 50  $\mu$ g of bovine serum albumin per 1  $\mu$ g of cytokine.  
(Bovine serum albumin free rhIL-4 is also available.)
- **Storage** This cytokine can be stored under sterile conditions at 4°C for two months or at -70°C for six months without detectable loss of activity.  
**Avoid repeated freeze-thaw cycles.**

For research use only. Not for use in Humans