Product Name: Recombinant Human IL-12

Catalog #: PCH2522



Summary

Name IL-12

Purity Greater than 98% as determined by reducing SDS-PAGE

Endotoxin level ≤10 EU/mg

Construction Recombinant Human IL-12 is produced by our Mammalian cell expression

system and the target gene encoding Ile23-Ser328&Arg23-Ser219 is

expressed.

Accession # P29460(IL12P40), P29459(IL12P35)

Host Human Cells

Species Human

Predicted Molecular Mass 59 kDa

Formulation Lyophilized From PBS,5% mannitol and 0.01% Tween 80, pH7.4

Shipping The product is shipped on dry ice/polar packs. Upon receipt, store it immediately

at the temperature listed below.

Stability&Storage Store at \leq -70°C, stable for 6 months after receipt. Store at \leq -70°C, stable for 3

months under sterile conditions after opening. Please minimize freeze-thaw

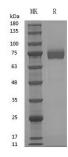
cycles.

Reconstitution Always centrifuge tubes before opening.Do not mix by vortex or pipetting.It is not

recommended to reconstitute to a concentration less than 100µg/ml.Dissolve the lyophilized protein in distilled water.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening.Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than 100µg/ml.Dissolve the lyophilized protein in distilled water.Please

aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image



Background

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Alternative Names

Interleukin-12 subunit alpha; IL-12A; Cytotoxic lymphocyte maturation factor 35 kDa subunit; CLMF p35; IL-12 subunit p35; NK cell; IL12A; NKSF1 stimulatory factor chain 1

Background

Interleukin 12 (IL-12) is the founding member of the IL-12 family of heterodimeric cytokines, which have important immunological functions. IL-12 is composed of two disulfide-linkedsubunits of 35 kDa and 40 kDa, respectively. The 35 kDa subunit (p35) is an α -helical protein homologous to IL-6 and GCSF.The 40 kDa subunit(p40) contains one fibronectin type III and one Ig C2-like domain, and has a high degree of structural homology to type I cytokine receptors. Whereas p35 subunit is unique to IL-12,the p40 subunit is also utilized in IL-23.Mature rat p35 is a 194 amino acids (aa) protein that is secreted as a heterodimer linked to p40. It contains three potential N-linked glycosylation sites and shares 86%, and 58% aa sequence identity with mouse and human p35, respectively. Mature rat p40 contains 313 aa and can exist in multiple forms, including monomer, homodimer, heterodimer linked to p19 (forming IL23), and heterodimer linked to p35 (forming IL-12). IL12 facilitates hematopoietic stem cell proliferation, induces NK cell proliferation, and potentiates the expansion and late activation of Th1 CD4+ T cells.

Note

For Research Use Only, Not for Diagnostic Use.

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