

Recombinant Human IL-12 p40 protein(His Tag)

Catalog Number:PKSH034191



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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| Synonyms | Interleukin-12 subunit beta;IL-12 subunit p40;IL-12B;Cytotoxic Lymphocyte Maturation Factor 40 kDa subunit (CLMF p40);NK cell Stimulating Factor Chain 2 |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Ile 23-Ser 328 |
| Accession | P29460 |
| Calculated Molecular Weight | 35.6 kDa |
| Observed molecular weight | 45 kDa |
| Tag | C-His |
| Bioactivity | Measure by its ability to induce cell proliferation in PHA-activated human peripheral blood lymphocytes (PBMC) using a concentration range of 5-50 ng/mL. Note: Results may vary from different PBMC donors. |

Properties

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|-----------------------|---|
| Purity | > 98 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 0.1 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS,pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Background

Interleukin-12 subunit beta (IL-12B) belongs to the type I cytokine receptor family. It contains 1 fibronectin type-III domain and 1 Ig-like C2-type domain. IL-12B is a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. IL-12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor encoded by IL12B and a 35 kD subunit encoded by IL12A. IL12 is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. It has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen.

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