IL-12 p35 Active Protein | IL-12p35 active protein

Recombinant Mouse IL-12 p35 protein (N-His)(active)

CATALOG #	HOST
AAA178004	**E Coli**

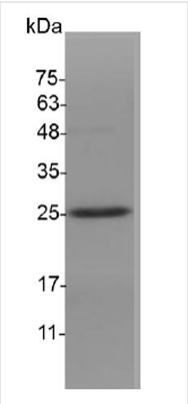
PRODUCT SYNONYMS

IL-12 p35; Recombinant Mouse IL-12 p35 protein (N-His)(active); Interleukin-12 subunit alpha; IL-12 subunit p35; IL-12A; Cytotoxic Lymphocyte Maturation Factor 35 kDa; IL-12p35 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>98% as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence	Arg23-Val2 02
Species	Mouse
Tag	C-His
Endotoxin	<0.1 EU per 1 ug of the protein by the LAL method.
Biological Activity	Measure by its ability to induce proliferation in T-cell enriched PBMC.The ED50 for this effect is <0.2 ng/mL.
Reconstitution	We recommend centrifuging the vial before opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that reconstitution buffer be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20°C 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. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IL-12p35 active protein	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 ?-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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226874945
NCBI GeneID	16159
NCBI Accession #	NP_001152896.1
NCBI GenBank Nucleotide #	NM_001159424.1
UniProt Accession #	P43431
Molecular Weight	Mol_Mass: 22.7 kDa AP_Mol_Mass: 25 kDa
NCBI Official Full Name	interleukin-12 subunit alpha isoform 1
UniProt Protein Name	Interleukin-12 subunit alpha
UniProt Gene Name	**Il12a**
UniProt Synonym Gene Names	IL-12A; CLMF p35
UniProt Entry Name	IL12A_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/e-coli-il-12p35-active-protein/il-12-p35/178004