

Interleukin-3 Active Protein | IL3 active protein

Interleukin-3, 20-152aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48476	HOST E Coli	APPLICATIONS SDS-Page
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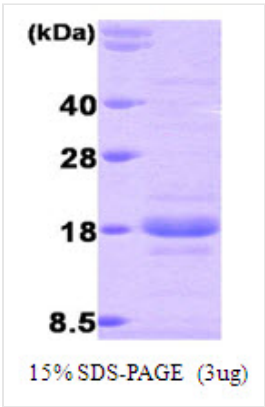
PRODUCT SYNONYMS

Interleukin-3; 20-152aa; Human; His tag; E Coli (Bioactivity Validated); IL-3; Multipotential colony-stimulating factor (multi-CSF); Mast cell growth factor (MCGF); interleukin 3 (colony-stimulating factor; multiple); MuLTI-CSF; MCGF; multilineage-colony-stimulating factor; hematopoietic growth factor; P-cell stimulating factor; mast-cell growth factor; IL3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in 20mM Tris pH 8.0, 0.2mM PMSF, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MAPMTQTSL KTSWVNCNM IDEIITHLKQ PPLPLDFNN LNGEDQDILM ENNLRPNLE AFNRAVKSLQ NASAIESILK NLLPCLPLAT AAPTRHPIHI KDGDWNEFRR KLTFYKLTLE NAQAQQTLS LAIF
Sequence Length	152
Applicable Applications for IL3 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effects less or equal to 1 ng/ml.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IL3 active protein	Interleukin-3 (IL-3) stimulates the proliferation of hematopoietic pluripotent progenitor cells. It is secreted by activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response. IL-3 exerts its biological activities through binding to specific cell surface receptors. IL-3 receptor is a complex consisting of alpha and beta subunits, which in turn induces activation of JAK2/ STAT5, induction of c-myc, and activation of the Ras pathway. Human IL3 is a protein of 15-17 kDa (133 amino acids). It is synthesized as a precursor containing a hydrophobic secretory signal sequence of 19 amino acids. IL3 contains two putative glycosylation sites at positions 15 and 70 and contains a single disulfide bond (Cys16/84). Recombinant human IL-3 was expressed in E Coli and purified by using conventional chromatography after refolding of the isolated inclusion bodies in a redox buffer.
Product Categories/Family for IL3 active protein	Hormones & Cytokines
References	Allan SM., et al. (2005), Nat. Rev. Immunol. 5:629.; Michaud DS., et al. (2006), Cancer Res. 66 (8):4525-30;

NCBI AND UNIPROT INFORMATION

NCBI GI #	3002475
NCBI GeneID	3562
Molecular Weight	17.3kDa (154aa), confirmed by MALDI-TOF.
NCBI Official Full Name	IL-3
NCBI Official Synonym Full Names	interleukin 3
NCBI Official Symbol	IL3
NCBI Official Synonym Symbols	IL-3; MCGF; MULTI-CSF
NCBI Protein Information	interleukin-3
UniProt Protein Name	Interleukin-3
UniProt Gene Name	IL3
UniProt Synonym Gene Names	IL-3; MCGF

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.