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Recombinant human IL-4I1 protein

Catalog Number: ATGP4099

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-567aa

UniProt No.

Q96RQ9

NCBI Accession No.

NP 690863

Alternative Names

Interleukin 4 induced 1, FIG1, LAAO, LAO, L-amino-acid oxidase isoform 1, L-amino-acid oxidase, IL4-induced protein 1, Fig-1, IL4I1, hIL4I1

PRODUCT SPECIFICATION

Molecular Weight

61.8kDa (555aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. 20mM MES (pH5.5) containing 0.1M NaCl, 40% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 300 pmol/min/ug, and defined as the amount of enzyme that oxidize 3-phenylpyruvate at pH 7.0 at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



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Recombinant human IL-411 protein

Catalog Number: ATGP4099

BACKGROUND

Description

IL-4I1, also known as FIG1, is a secreted L-amino-acid oxidase that acts as a key immunoregulator. It is highly expressed in primary metastinal B-cell lymphomas. This protein acts as a negative regultaotr of anti-tumor immunity by mediating Trp degradation via ans indole pyruvate pathway that activates the transcription factor AHR. IL-4I1-mediated Trp catabolism generates I3P, giving rise to indole metabolites and kynurenic acid, which act as ligands for AHR, a ligand-activated transcription factor that plays important roles in immunity and cancer. IL-4II also regulates M2 macrophage polarization by inhibiting T-cell activation and has antibacterial properties by inhibiting growth of Gram negative and Gram positive bacteria through the production of NH4+ and H2O2. Recombinant human IL-4I1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

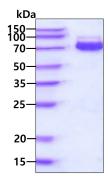
<ADL>QDWKAER SQDPFEKCMQ DPDYEQLLKV VTWGLNRTLK PQRVIVVGAG VAGLVAAKVL SDAGHKVTIL EADNRIGGRI FTYRDQNTGW IGELGAMRMP SSHRILHKLC QGLGLNLTKF TQYDKNTWTE VHEVKLRNYV VEKVPEKLGY ALRPQEKGHS PEDIYQMALN QALKDLKALG CRKAMKKFER HTLLEYLLGE GNLSRPAVQL LGDVMSEDGF FYLSFAEALR AHSCLSDRLQ YSRIVGGWDL LPRALLSSLS GLVLLNAPVV AMTQGPHDVH VQIETSPPAR NLKVLKADVV LLTASGPAVK RITFSPPLPR HMQEALRRLH YVPATKVFLS FRRPFWREEH IEGGHSNTDR PSRMIFYPPP REGALLLASY TWSDAAAAFA GLSREEALRL ALDDVAALHG PVVRQLWDGT GVVKRWAEDQ HSQGGFVVQP PALWQTEKDD WTVPYGRIYF AGEHTAYPHG WVETAVKSAL RAAIKINSRK GPASDTASPE GHASDMEGQG HVHGVASSPS HDLAKEEGSH PPVQGQLSLQ NTTHTRTSH

General References

Cousin C., et al, (2015) Eur J Immunol. 45:1772-1782. Sadik A., et al, (2020) Cell. 182:1525-1270. Mulder K., et al, (2021) Immunity. 54:1883-1900.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

