

Active Recombinant Human Interleukin 4 Induced 1, His-tagged

Cat. No. IL4I1-654H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human IL4I1 protein was expressed in Chinese Hamster Ovary cell line. Gln22-His567, with a C-terminal 6-His tag.

Species

Human

Source

CHO

Protein Length

22-567 a.a.

Description

IL4I1 is encoded by a B-cell IL-4-inducible gene, FIG1, and is highly expressed in primary metastatic B-cell lymphomas. It belongs to the flavin monoamine oxidase family, FIG1 subfamily. Enzymological characterization reveals that IL4I1 has L-amino acid oxidase activity with preference toward aromatic amino acids. Studies have shown that hIL-4I1 inhibited the proliferation of CD3-stimulated T lymphocytes with a similar effect on CD4(+) and CD8(+) T cells. Its inhibitory effect was dependent on enzymatic activity and H₂O₂ production. Its restricted expression to lymphoid tissues indicates that it may play an important function in the immune system.

Form

Supplied as a 0.2 unfiltered solution in Tris, NaCl and Glycerol.

N-terminal Sequence

Gln22 predicted.

Molecular Weight

61 kDa

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Activity	Measured by its ability to oxidize phenylalanine in a horseradish peroxidase coupled assay. The specific activity is > 150 pmol/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	70-75kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	IL4I1 interleukin 4 induced 1 [Homo sapiens]
Official Symbol	IL4I1
Synonyms	IL4I1; interleukin 4 induced 1; LAO; FIG1; LAAO; L-amino-acidoxidase; Fig-1 protein; IL4-induced protein 1; interleukin four induced 1; EC1.4.3.2
Gene ID	259307
mRNA Refseq	NM_172374
Protein Refseq	NP_758962
MIM	609742


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UniProt ID	Q96RQ9
Chromosome Location	19q13.3-q13.4
Pathway	Alanine, aspartate and glutamate metabolism; Cysteine and methionine metabolism; Metabolic pathways; Phenylalanine metabolism; Phenylalanine; Tryptophan metabolism; Tyrosine metabolism; Valine, leucine and isoleucine degradation
Function	L-amino-acid oxidase activity; oxidoreductase activity

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