

Active Recombinant Mouse Interleukin 4 Induced 1, His-tagged

Cat. No. IL4i1-653M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL4i1 protein was expressed in Chinese Hamster Ovary cell line. Leu21-Ser630, with a C-terminal 6-His tag.
Species	Mouse
Source	CHO
Protein Length	21-630 a.a.
Description	IL4i1 was first identified in mouse B cells as part of the response to IL-4, a key regulator of the immune response. Later, the enzyme was shown to be a member of the flavin-containing amino acid oxidase family and closely related to L-amino acid oxidases. Enzymological characterization reveals that IL4i1 has L-amino acid oxidase activity with preference toward aromatic amino acids. Its limited expression in immune tissues, dendritic cells, and macrophages indicates that it may play an important function in the immune system.
Form	Supplied as a 0.2 umfiltered solution in Sodium Acetate and NaCl.
N-terminal Sequence	Leu21
Molecular Weight	69 kDa
Activity	Measured by its ability to produce hydrogen peroxide during the oxidation of phenylalanine. The specific activity is > 100 pmol/min/μg, as measured under

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	thedescribed conditions.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	86 kDa,reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use amannual defrost freezer and avoid repeated freezethaw cycles. 6 monthsfrom date of receipt, -20 to -70°C as supplied. 3 months,-20to-70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	Il4i1 interleukin 4 induced 1 [Mus musculus]
Official Symbol	Il4i1
Synonyms	Il4i1; interleukin 4induced 1; LAO; Fig1; LAAO; Fig1-ps; L-amino-acidoxidase; protein Fig-1; IL4-induced protein 1; interleukin-4-induced protein1; interleukin-four induced gene 1; interleukin-four induced protein-1;interleukin-four induced gene-1 protein; EC 1.4.3.2
Gene ID	14204
mRNA Refseq	NM_010215
Protein Refseq	NP_034345
UniProt ID	O09046

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Chromosome Location	7
Pathway	Alanine, aspartate and glutamate metabolism; Cysteine and methionine metabolism; Methionine metabolism; Metabolic pathways; Phenylalanine metabolism; Phenylalanine, tyrosine and tryptophan biosynthesis; Tryptophan metabolism; Tyrosine metabolism; Valine, leucine and isoleucine degradation
Function	L-amino-acid oxidase activity; oxidoreductase activity

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