

Active Recombinant Mouse Interleukin 4 Induced 1, His-tagged

Cat. No. II4i1-653M Lot. No. (See product label)

SPECIFICATION

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|----------------------------|--|
| Product Overview | Recombinant Mouse II4i1 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 | <p>II4i1 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 II4i1 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.</p> |
| Form | Supplied as a 0.2 unfiltered 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 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

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|------------------------|---|
| Gene Name | Il4i1 interleukin 4 induced 1 [Mus musculus] |
| Official Symbol | Il4i1 |
| Synonyms | Il4i1; interleukin 4 induced 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**

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Pathway

Alanine, aspartate and glutamate metabolism; Cysteine and methionine metabolism; Methionine and 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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