

Recombinant Mouse Indoleamine 2,3-dioxygenase 1, His-tagged

Cat. No. Ido1-2126M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ido1 was produced in <i>E. coli</i> . Mature mouse IDO (indoleamine 2,3-dioxygenase) (aa 1-407) is fused at the C-terminus to a His-tag.
Species	Mouse
Source	E.coli
ProteinLength	1-407 a.a.
Description	Indoleamine-pyrrole 2,3-dioxygenase (IDO or INDO EC 1.13.11.52) is an immunomodulatory enzyme produced by some alternatively activated macrophages and other immunoregulatory cells (also used as an immune subversion strategy by many tumors). IDO is the first and rate-limiting enzyme of tryptophan catabolism through kynurenine pathway, thus causing depletion of tryptophan which can cause halted growth of microbes as well as T cells.
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. 0.2µm-filtered solution in 50mM TRIS, pH 7.4, containing 1mM EDTA.
Concentration	1mg/ml.
Endotoxin Content	<1EU/g protein (LAL-test).

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Specific Activity >100'000U/mg protein with L-tryptophan as substrate. One unit is defined as the amount of enzyme that produces 1nmol of kynurenine per hour.

Storage Working aliquots are stable for up to 3 months when stored at -20°C.

GENE INFORMATION

Gene Name [Ido1 indoleamine 2,3-dioxygenase 1 \[Mus musculus \]](#)

Synonyms Ido1; indoleamine 2,3-dioxygenase 1; Ido; Indo; IDO-1; OTTMUSP00000022551; indole 2,3-dioxygenase; indoleamine-pyrrole 2,3 dioxygenase; indoleamine-pyrrole 2,3-dioxygenase; EC 1.13.11.52

Gene ID [15930](#)

mRNA Refseq [NM_008324](#)

Protein Refseq [NP_032350](#)

UniProt ID [P28776](#)

Chromosome Location 8 A2

Pathway Metabolic pathways; Tryptophan metabolism

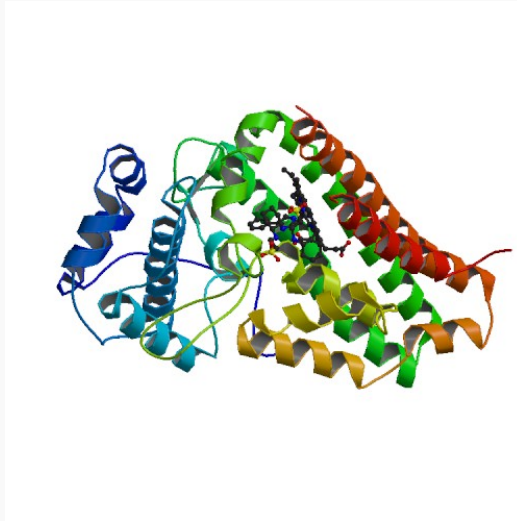
Function amino acid binding; heme binding; indoleamine 2,3-dioxygenase activity; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; oxygen binding; tryptophan 2,3-dioxygenase activity

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PDB rendering based
on 2d0t.



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