

Recombinant Mouse IDO1 Protein (1-407 aa), His-tagged

Cat. No. IDO1-2077M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IDO1 Protein (1-407 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length.
Species	Mouse
Source	Yeast
ProteinLength	1-407 aa
Description	Catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway. Involved in the peripheral immune tolerance, contributing to maintain homeostasis by preventing autoimmunity or immunopathology that would result from uncontrolled and overreacting immune responses. Tryptophan shortage inhibits T lymphocytes division and accumulation of tryptophan catabolites induces T-cell apoptosis and differentiation of regulatory T-cells. Acts as a suppressor of anti-tumor immunity (PubMed:25691885). Limits the growth of intracellular pathogens by depriving tryptophan. Protects the fetus from maternal immune rejection.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	47.6 kDa
AA Sequence	MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYS PWVLVARNLPVLIENGQ

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LREEVEKLPTLSTDGLRGHRLQRLAHLALGYITMAYVWNRGDDDVVRKVLPRNIAVPY
 CELSEKLGLPPILSYADCVLANWKKKDPNGPMTYENMDILFSFPGGDCDKGFFLVSL
 LVEIAASPAIKAIPVSSAVERQDLKALEKALHDIATSLEKAKEIFKMRDFVDPDTFFH
 VLRIYLSGWKCSSKLPEGLLYEGVWDTPKMFSGGSAGQSSIFQSLDVLLGIKHEAGK
 ESPAEFLQEMREYMPPAHRNFFLESAPPVREFVISRHNEDLTKAYNECVNGLVSV
 RKFHLAIVDTYIMKPSKKKPTDGDKSEEPSNVESRGTGGTNPMTFLRSVKDTTEKAL
 LSWP

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

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

Official Symbol [IDO1](#)

Synonyms IDO1; indoleamine 2,3-dioxygenase 1; IDO-1; indole 2,3-dioxygenase; Ido; Indo;

Gene ID [15930](#)

mRNA Refseq [NM_008324](#)

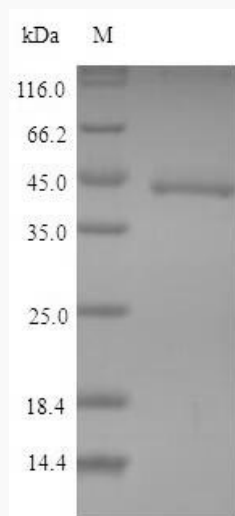
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Protein Refseq NP_032350

UniProt ID P28776



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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