

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

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	Yeast
<b>ProteinLength</b>	1-407 aa
<b>Description</b>	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.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	47.6 kDa
<b>AA Sequence</b>	MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYSPPWVLVARNLPLVLIENGQ

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LREEVEKLPTLSTDGLRGHRLQRLAHLALGYITMAYVWNRGDDDVVRKVLPRNIAVPY  
 CELSEKLGPPILSYADCVLANWKKKDPNGPMTYENMDILFSFPGGDCDKGFFLVSL  
 LVEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATSLEKAKEIFKRMRDFVDPDTFFH  
 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](#)

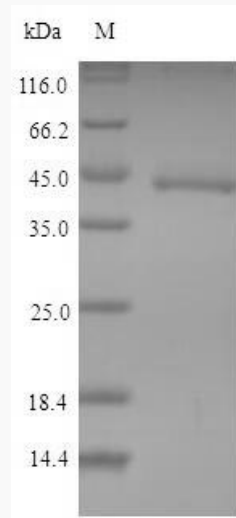
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Protein Refseq NP\_032350

UniProt ID P28776



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

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