



Recombinant Mouse Indoleamine 2,3-dioxygenase 1 (Ido1)

Product Code	CSB-YP010996MO
Relevance	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
Abbreviation	Recombinant Mouse Ido1 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P28776
Alias	Short name: IDO-1 Alternative name(s): Indoleamine-pyrrole 2,3-dioxygenase
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYS PWVLVARNLPVLIE NGQLREEVEKLPSTLSTDGLRGHRLQRLAHLALGYITMAYVWNRGDDDDVRKVL PRNIAVPYCELSEKLGPPILSYADCVLNWKKKDPNGPMTYENMDILFSFPG GDCDKGFFLVSLLEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATSLEKAKE IFKRMRDFVDPDTPFFHVLRIYLSGWKCSSKLPEGLLYEGVWDTPKMFSGGSA GQSSIFQSLDVLLGIKHEAGKESPAEFLQEMREYMPPAHRNFLFFLESAPPVR EFVISRHNEDLTKAYNECVNGLVSVRKFHLAIVDTYIMKPSKKKPTDGDKSEEP SNVESRGTGGTNPMTFLRSVKDTTEKALLSWP
Research Area	Signal Transduction
Source	Yeast
Target Names	Ido1
Protein Names	Recommended name: Indoleamine 2,3-dioxygenase 1 Short name= IDO-1 EC= 1.13.11.52 Alternative name(s): Indoleamine-pyrrole 2,3-dioxygenase
Expression Region	1-407aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Tag Info**

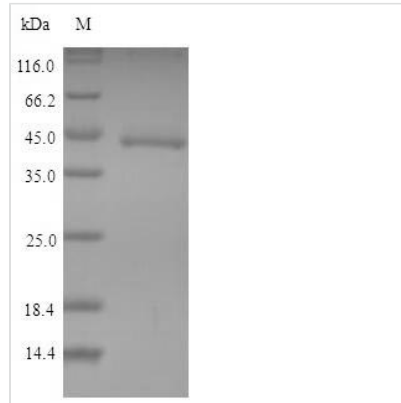
N-terminal 6xHis-tagged

Mol. Weight

47.6kDa

Protein Length

Full Length

Image

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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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