



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

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| <b>Product Code</b>      | CSB-YP010996MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Relevance</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>Abbreviation</b>      | Recombinant Mouse Ido1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>           | 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.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Uniprot No.</b>       | P28776                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Alias</b>             | Short name: IDO-1 Alternative name(s): Indoleamine-pyrrole 2,3-dioxygenase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen Species</b> | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sequence</b>          | MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYS PWVLVARNLPVLIE<br>NGQLREEVEKLPTLSTDGLRGHRLQRLAHLALGYITMAYVWNRGDDDV RKVL<br>PRNIAVPYCEELSEKLGLPPILSYADCVLANWKKKDPNGPMTYENMDILFSFPG<br>GDCDKGFFLVSLLEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATSLEKAKE<br>IFKRMRDFVDPDTFFHVLRIYLSGWKCSSKLPEGLLYEGVWDTPKMFSGGSA<br>GQSSIFQSLDVLLGIKHEAGKESPAEFLQEMREYMPPAHRNFLFFLESAPPVR<br>EFVISRHNEDLTKAYNECVNGLVSVRKFH LAIVDTYIMKPSKKKPTDGDKSEEP<br>SNVESRGTTGGTNPM TFLRSVKDTTEKALLSWP                                                                                                                                                                                                                                           |
| <b>Research Area</b>     | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target Names</b>      | Ido1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Names</b>     | Recommended name: Indoleamine 2,3-dioxygenase 1 Short name= IDO-1 EC= 1.13.11.52 Alternative name(s): Indoleamine-pyrrole 2,3-dioxygenase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Expression Region</b> | 1-407aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

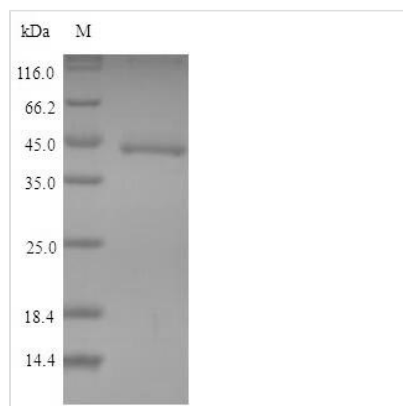


**Tag Info** N-terminal 6xHis-tagged

**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** 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.