

## 32-8771: Recombinant Mouse Indoleamine 2,3-Dioxygenase/IDO/INDO (N-6His)

**Gene :** Ido1  
**Gene ID :** 15930  
**Uniprot ID :** P28776

### Description

Source: E.coli.  
MW :47.1kD.

Recombinant Mouse Indoleamine 2,3-dioxygenase is produced by our E.coli expression system and the target gene encoding Met1-Pro407 is expressed with a 6His tag at the N-terminus. Indoleamine 2,3-dioxygenase (IDO) is a heme enzyme that initiates the oxidative degradation of the least abundant, essential amino acid, L-tryptophan, along the kynurenine pathway. This protein is normally expressed in the dendritic cells, macrophages, microglia, eosinophils, fibroblasts, endothelial cells, and most tumor cells. IDO activity is associated with immunosuppression and immune attenuation. Several studies showed that IDO can contribute to immune escape when expressed directly in tumor cells or when expressed in immunosuppressive antigen presenting cells such as tolerogenic dendritic cells or tumor associated macrophages. IDO also is a promising therapeutic target for the treatment of cancer, chronic viral infections, and other diseases characterized by pathological immune suppression.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Sodium Acetate, 150mM NaCl and 20% Glycerol, pH4.5..  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MNHKVHHHHHMHMALSISPTEGSRRILEDHHDHEDVGFALPHPLVELPDAYSPPWVLVARNLPVLIENGQLREEV  
EKLPTLSTDGLRGHRLQRLAHLALGYITMAYVWNRGDDDDVRKVLPRNIAVPYCELSEKLGPPILSYADCVLAN  
WKKKDPNGPMTYENMDILFSFPGGDCDKGFFLVSLLEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATSLEK  
AKEIFKRMDFVDPDTFFHVLRIYLSGWKCSSKLPEGLLYEGVWDTPKMFSGGSAGQSSIFQSLDVLLGIKHEA  
GKESPAEFLQEMREYMPPAHRNFLFFLESAPPVREFVISRHNEDLTKAYNECVNGLVSVRKFHLAIVDTYIMKPS  
KKKPTDGDKSEEPSNVESRGTGGTNPMTFLRSVKDTTEKALLSWP

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.