

## Product datasheet for **TP727494**

### IDO1 Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Indoleamine 2,3-Dioxygenase/IDO/INDO (N-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Gly403
Tag:	N-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Sodium Acetate, 150mM NaCl and 20% Glycerol, pH4.5.
Note:	Recombinant Human Indoleamine 2,3-dioxygenase is produced by our E.coli expression system and the target gene encoding Met1-Gly403 is expressed with a 6His tag at the N-terminus.
Stability:	12 months from date of despatch
Locus ID:	3620
UniProt ID:	<a href="#">P14902</a>
Summary:	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.



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