Recombinant human IDO1

Catalog No: #AG0060

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human IDO1
Host Species	E.coli
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Met1-Gly403
Target Name	IDO1
Other Names	3dioxygenase; EC 1.13.11.52; IDO; IDO1; IDOIDO-1; INDO; INDOindole 2,3-dioxygenase; Indoleamine 2; indoleamine 2,3-dioxygenase 1; Indoleamine 2,3-dioxygenase; indoleamine-pyrrole 2,3 dioxygenase; Indoleamine-pyrrole 2,3-dioxygenase
Accession No.	Uniprot:P14902Gene ID:3620
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GeneID	3620
Target Species	human
Calculated MW	45 KDa
Tag Info	N-6*His-Thrombin
Formulation	0.22 μm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Background

Indoleamine 2,3-dioxygenase (IDO) is a heme-containing intracellular dioxygenase catalyzing the degradation of the essential amino acid L-tryptophan to N?formyl?kynurenine (1). This degradation is the first and rate-limiting step of the L-kynurenine pathway (2). IDO is widely expressed in dendritic cells, macrophages, microglia, eosinophils, fibroblasts, endothelial cells, and most tumor cells. In immune cells, its expression is mainly induced by cytokines such as IFN? gamma, IFN? alpha, IFN? beta, and IL?10. IDO has an antimicrobial function due to its decreasing the availability of the essential amino acid tryptophan in inflammatory environments (3). Recent studies have demonstrated that IDO induces immunosuppression during infection, pregnancy, transplantation, autoimmunity, and neoplasia (3?5).

Note: This product is for in vitro research use only