

Recombinant Full Length Human IDO1 Protein

Cat. No. IDO1-254HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Indoleamine 2, 3-dioxygenase protein with an N terminal proprietary tag; predicted Mwt: 70.07 kDa
Species	Human
Source	In Vitro Cell Free System
ProteinLength	403 amino acids
Description	This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.
Form	Liquid
Molecular Mass	70.070kDa inclusive of tags
AA Sequence	MAHAMENSWT ISKEYHIDEE VGFALPNPQE NLPDFYNDWM FIAKHLPDLI ESGQLRERVE KLNMLSIDHL TDHKSQRLAR LVLGCITMAY VWGKGHGHDVR

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KVLPRNIAVP YCQLSKKLEL PPILVYADCV LANWKKKDPN KPLTYENMDV
 LFSFRDGDSCS KGFFLVSLLV EIAAASAIKV IPTVFKAMQM QERDTLLKAL
 LEIASCLEKA LQVFHQIHDH VNPKAFFSVL RIYLSGWKGN PQLSDGLVYE
 GFWEDPKEFA GGSAGQSSVF QCQDVLGLIQ QTAGGGHAAQ FLQDMRRYMP
 PAHRNFLCSL ESNPSVREFV LSKGDAGLRE AYDACVKALV SLRSYHLQIV
 TKYILIPASQ QPKENKTSER PSKLEAKGTG GTDLMNFKLT VRSTTEKSLL KEG

Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	IDO1 indoleamine 2,3-dioxygenase 1 [Homo sapiens]
Official Symbol	IDO1
Synonyms	IDO1; indoleamine 2,3-dioxygenase 1; IDO, INDO, indoleamine pyrrole 2,3 dioxygenase
Gene ID	3620
mRNA Refseq	NM_002164
Protein Refseq	NP_002155
MIM	147435

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UniProt ID

P14902

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