

# Recombinant Full Length Human IDO1 Protein

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Indoleamine 2, 3-dioxygenase protein with an N terminal proprietary tag; predicted Mwt: 70.07 kDa
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	403 amino acids
<b>Description</b>	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.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	70.070kDa inclusive of tags
<b>AA Sequence</b>	MAHAMENSWT ISKEYHIDEE VGFALPNPQE NLPDFYNDWM FIAKHLPLDI ESGQLRERVE KLNMLSIDHL TDHKSQRLAR LVLGCITMAY VWGKGHGSDVR

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

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

## GENE INFORMATION

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



UniProt ID

P14902

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