

Product datasheet for PH306592

IDO1 (NM_002164) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IDO1 MS Standard C13 and N15-labeled recombinant protein (NP_002155)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206592
Predicted MW:	45.3 kDa
Protein Sequence:	>RC206592 protein sequence Red=Cloning site Green=Tags(s)
	MAHAMENSWTISKEYHIDEEVGFALPNPQENLPDFYNDWMFIAKHLPDLIESGQLRERVEKLNMLSIDHL TDHKSQRLARLVLCITMAYVWGKGGDVRKVLPRNIAVPYCQLSKKLELPPILVYADCVLANWKKKDPN KPLTYENMDVLF SFRDGDCKGFFLVSLLEIAAASAIKVIPTVFKAMQMQRDTLLKALLEIASCLEKA LQVFHQIHDHVNPKAFFSVLR IYLSGWKGNPQLSDGLVYEGFWEDPKEFAGGSAGSSVFQCFDVLGGIQ QTAGGGHAAQFLQDMRRYMPPAHRNFLCSLESNPSVREFVLSKGDAGLREAYDACVKALVSLRSYHLQIV TKYILIPASQQPKENKTSKLEAKGTGGTDLNMF LKTVRSTTEKSLKKEG
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002155
RefSeq Size:	1944
RefSeq ORF:	1209
Synonyms:	IDO; IDO-1; INDO
Locus ID:	3620



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UniProt ID: [P14902](#), [A0A348GSI3](#)

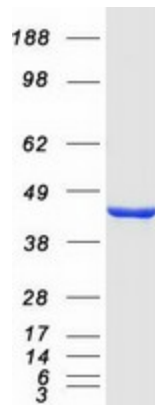
Cytogenetics: 8p11.21

Summary: 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.[provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified IDO1 protein (Cat# [TP306592]). The protein was produced from HEK293T cells transfected with IDO1 cDNA clone (Cat# [RC206592]) using MegaTran 2.0 (Cat# [TT210002]).