Recombinant Human IDO1 Protein, His/Avi-tagged

Cat. No. IDO1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IDO1, also known as Indoleamine 2,3-dioxygenase 1, a.a. 2-403(end) with an N-terminal His-Avi-Tag, was expressed in an E. coli cell expression system.
Species	Human
Source	E.coli
ProteinLength	2-403 a.a.
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	Aqueous buffer solution
Molecular Mass	48 kDa
Applications	Useful for studying enzyme kinetics, substrate specificity, and screening inhibitors.

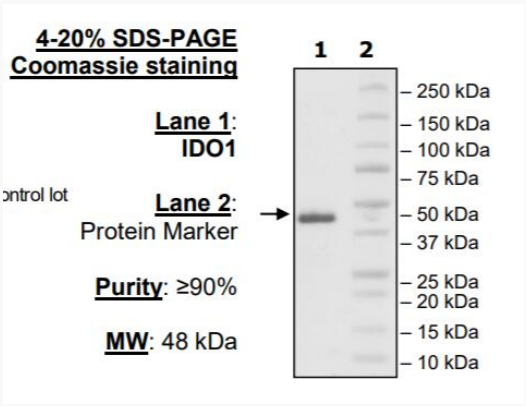
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Stability	At least 6 months at -80 centigrade
Storage	At -80 centigrade
Concentration	1.12 mg/mL
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04 % Tween 20, 20 % glycerol

GENE INFORMATION

Gene Name	IDO1 indoleamine 2,3-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	IDO1
Synonyms	IDO1; indoleamine 2,3-dioxygenase 1; IDO; INDO; IDO-1; indoleamine 2,3-dioxygenase 1; indolamine 2,3 dioxygenase; indole 2,3-dioxygenase; indoleamine-pyrrole 2,3-dioxygenase; EC 1.13.11.52
Gene ID	3620
mRNA Refseq	NM_002164
Protein Refseq	NP_002155
MIM	147435
UniProt ID	P14902
Specific Activity	

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Purity	

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