

Active Recombinant Human IDO1 protein, His-tagged

Cat. No. IDO1-008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant human N-terminal His-tagged IDO1 was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-403 (full length)
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	40 mM Tris-HCl, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride, and 20% glycerol.
Bio-activity	IDO1 activity is measured by incubating with L-Trp substrate. After a three hour roomtemperature incubation, activity is determined by measuring the absorption of reaction product at $\lambda = 320-325$ nm.

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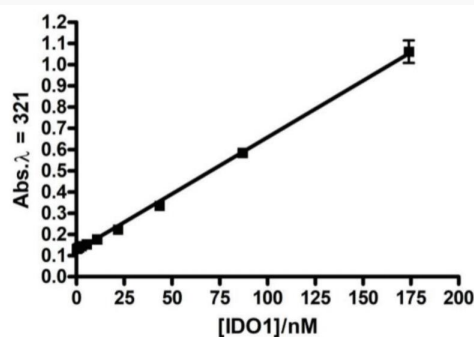
Molecular Mass	46 kDa
Purity	≥90% estimated by SDS-PAGE
Applications	Enzyme Activity
Stability	≥ 6 months
Storage	-80 centigrade
Shipping	Dry ice in continental US; may vary elsewhere
GENE INFORMATION	
Gene Name	IDO1 indoleamine 2,3-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	IDO1
Synonyms	Indoleamine 2,3-dioxygenase 1 Indoleamine-pyrrole 2,3-dioxygenase
Gene ID	3620
mRNA Refseq	NM_002164
Protein Refseq	NP_002155
MIM	147435
UniProt ID	P14902

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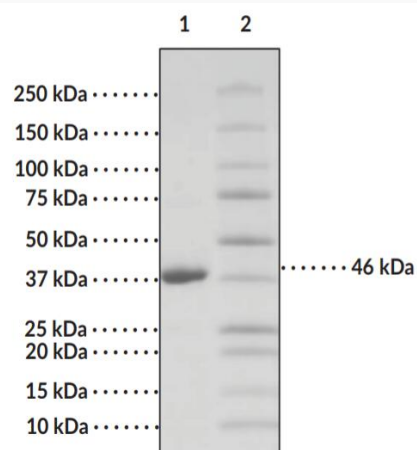
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IDO1 Specific Activity



SDS-PAGE Analysis of IDO1.



Representative gel image shown; actual purity may vary between each batch.