

Indoleamine-2,3-Dioxygenase (IDO) Active Protein | IDO active protein

Active Indoleamine-2,3-Dioxygenase (IDO)

CATALOG # AAA148135	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	----------------------------	---

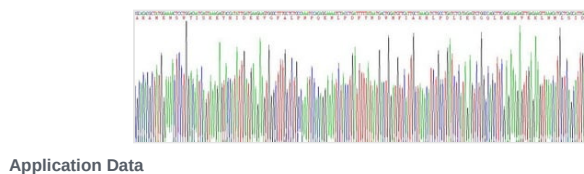
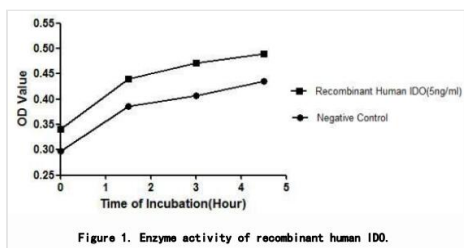
PRODUCT SYNONYMS

Indoleamine-2; 3-Dioxygenase (IDO); Active Indoleamine-2; CD107B; INDO; Indoleamine-Pyrrole 2; 3 Dioxygenase; IDO active protein

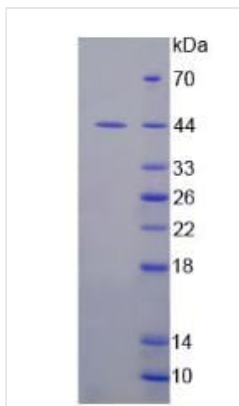
PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	403
Applicable Applications for IDO active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01%skl, 5% Trehalose and Proclin300.
Fragment	Ala2~Gly403
Isoelectric Point	6.8

IMAGES



Application Data



SDS-PAGE

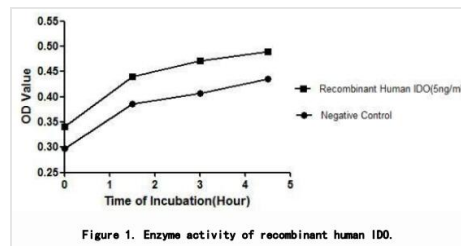


Figure 1. Enzyme activity of recombinant human IDO.

Activity

IDO (Indoleamine 2,3-dioxygenase 1) is 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. Thus, bioactivity of recombinant human IDO was measured through its ability to oxidize L-tryptophan to N-formyl-kynurenine, using Methylene Blue as indicator. Briefly, a mixture of 800μM L-tryptophan, 9000 units/mL catalase, and 40μM Methylene Blue with the addition of 80mM ascorbic acid reaction buffer was incubated with different concentrations of IDO, and the absorbance was read in 321nm every 1.5h. The result indicated that recombinant human IDO oxidize L-tryptophan.

ADDITIONAL INFORMATION

Product Categories/Family for IDO active protein	Enzyme & Kinase; Infection immunity
--	-------------------------------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504577
NCBI GeneID	3620
NCBI Accession #	NP_002155.1
NCBI GenBank Nucleotide #	NM_002164.5
UniProt Accession #	P14902; Q540B4; E5RGR8; F6M9T7
Molecular Weight	Predicted Molecular Weight: 46.7kDa Accurate Molecular Weight: 43kDa
NCBI Official Full Name	indoleamine 2,3-dioxygenase 1
NCBI Official Synonym Full Names	indoleamine 2,3-dioxygenase 1
NCBI Official Symbol	IDO1
NCBI Official Synonym Symbols	IDO; INDO; IDO-1
NCBI Protein Information	indoleamine 2,3-dioxygenase 1
UniProt Protein Name	Indoleamine 2,3-dioxygenase 1
UniProt Gene Name	IDO1
UniProt Synonym Gene Names	IDO; INDO; IDO-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-active-protein/indoleamine-23-dioxygenase-ido/148135>