

IDO1 active protein

IDO1, 1-403aa, Human, His-tag, E Coli (Bioactivity Validated)

CATALOG # AAA48930	HOST E Coli	APPLICATIONS SDS-Page
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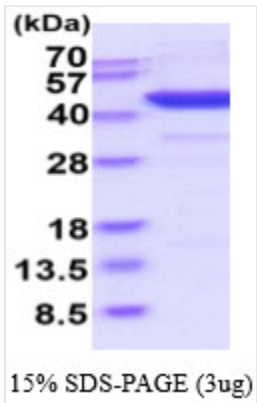
PRODUCT SYNONYMS

IDO1; 1-403aa; Human; His-tag; E Coli (Bioactivity Validated); Indoleamine 2; 3-dioxygenase 1; IDO; IDO-1; INDO; IDO1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMAHAMEN SWTISKEYHI DEEVGFALPN PQENLPDFYN DWMFIAKHLP DLIESGQLRE RVEKLNMLSI DHLTDHKSQR LARLVGCIT MAYVWGKGHG DVRKVLPRNI AVPYCQLSKK LELPPILVYA DCVLNWKKK DPNKPLTYEN MDVLFSEFRDG DCSKGFFLVS LLVEIAAASA IKVIPTVFKA MQMQERDTLL KALLEIASCL EKALQVFHQI HDHVNPKAFF SVLRIYLSGW KGNPQLSDGL VYEGFWEDPK EFAGGSAGQS SVFQCFDVLL GIQQTAGGGH AAQFLQDMRR YMPPAHRNFL CSLESNPSVR EFVLSKGDAG LREAYDACVK ALVSLRSYHL QIVTKYLIP ASQQPKENKT SEDPSKLEAK GTGGTDL MNF LKTVRSTTEK SLLKEG
Sequence Length	403
Applicable Applications for IDO1 active protein	SDS-PAGE, Enzyme Activity
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 300 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of L-Tryptophan to N-formyl-L-kynurenine per minute at pH 6.5 at 25C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for IDO1 active protein	IDO1 is an indoleamine 2,3-dioxygenase - 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, and serotonin. It 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 pericellular catabolization of the essential amino acid tryptophan. Recombinant human IDO1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for IDO1 active protein	Metabolism
References	Metz R., et al (2007). Nature Cancer Res. 67:7082-7087; Yuasa H.J., et al (2007). J. Mol. Evol. 65:705-714

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504577
NCBI GeneID	3620
NCBI Accession #	NP_002155
NCBI GenBank Nucleotide #	NM_002164.5
UniProt Accession #	P14902; Q540B4; E5RGR8; F6M9T7
Molecular Weight	47.7 kDa (426aa), confirmed by MALDI-TOF
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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/ido1/48930>