BioVision

IDO1, human recombinant

CATALOG NO:	P1096-10 P1096-50	10 µg 50 µg
ALTERNATE NAMES:	Indoleamine 2,3-dioxygenase 1, IDO, IDO-1, INDO	
CONCENTRATION:	0.5 mg/ml (determined by Bradford assay)	
SOURCE:	<i>E.coli</i> expressed recombinant IDO1 protein is fused to His-tag at N-terminus (1-403aa).	
PURITY:	> 90% by SDS-PAGE	
MOL. WEIGHT:	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 47.7 kDa (426aa).	
FORM:	Liquid	
FORMULATION:	In 20mM Tris-HC glycerol, 1mM DT	ी buffer (pH8.0) containing 0.15M NaCl, 20% Г
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.	
SEQUENCE:	MGSSHHHHHH DEEVGFALPN I RVEKLNMLSI D DVRKVLPRNI A DPNKPLTYEN I IKVIPTVFKA M HDHVNPKAFF S EFAGGSAGQS S YMPPAHRNFL C ALVSLRSYHL GTGGTDLMNF L	SSGLVPRGSH MGSMAHAMEN SWTISKEYHI PQENLPDFYN DWMFIAKHLP DLIESGQLRE HLTDHKSQR LARLVLGCIT MAYVWGKGHG VPYCQLSKK LELPPILVYA DCVLANWKKK MDVLFSFRDG DCSKGFFLVS LLVEIAAASA QMQERDTLL KALLEIASCL EKALQVFHQI SVLRIYLSGW KGNPQLSDGL VYEGFWEDPK SVFQCFDVLL GIQQTAGGGH AAQFLQDMRR SLESNPSVR EFVLSKGDAG LREAYDACVK QIVTKYILIP ASQQPKENKT SEDPSKLEAK KTVRSTTEK SLLKEG
DESCRIPTION:	IDO1 is an indole catalyzes the first N-formyl-kynureni substrates includi play a role in a v antimicrobial a immunoregulation in dendritic cells modulates T-cell essential amino protein, fused to and purified by usi	eamine 2,3-dioxygenase - a heme enzyme that and rate-limiting step in tryptophan catabolism to ne. This enzyme acts on multiple tryptophan ng D-tryptophan, and serotonin. It is thought to variety of pathophysiological processes such as and antitumor defense, neuropathology, and antioxidant activity. Through its expression monocytes, and macrophages this enzyme behavior by its pericellular catabolization of the acid tryptophan. Recombinant human IDO1 His-tag at N-terminus, was expressed in E.coli ng conventional chromatography techniques.
BIOLOGICAL ACTIVITY:	Specific activity is of enzyme that hy Lkvnurenine per m	>300 pmol/min/ug, and is defined as the amount /drolyze 1.0 pmole of L-Tryptophan to N-formyl- inute at pH 6.5 at 25C.



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RELATED PRODUCT:

- IMPAD1, human recombinant (Cat. No. 7812-10)
- CST6, human recombinant (Cat. No. 9234-10)
- Cathepsin B, Active, human recombinant (Cat. No. 7580-50)

FOR RESEARCH USE ONLY! Not to be used on humans.

