

TDO2 recombinant protein

TDO2, 1-406aa, Human, His tag, E Coli

CATALOG # AAA48657	HOST E Coli	APPLICATIONS SDS-Page
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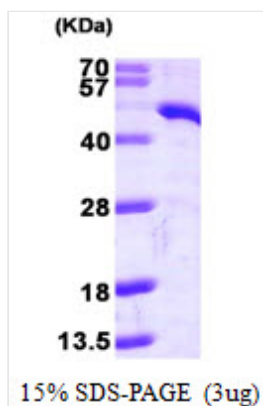
PRODUCT SYNONYMS

TDO2; 1-406aa; Human; His tag; E Coli; Tryptophan 23-dioxygenase; Tryptophan 2; 3-dioxygenase; TDO; TPH2; TRPO; TDO2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 30% glycerol
Concentration	0.25 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MSGCPFLGNN FGYTFKKLPV EGSEEDKSQT GVN RASKGGL IYGNYLHLEK VLNAQELQSE TKGNIHDEH LFIITHQAYE LWFKQLWEL DSVREIFQNG HVRDERNMLK VVSRMHRVSV ILKLLVQQFS ILETMTALDF NDFREYLSPA SGFQSLQFRL LENKIGVLQN MRVPYNRRHY RDNFKGEENE LLKSEQEKT LLELVEAWLE RTPGLEPHGF NFWGKLEKNI TRGLEEEFIR IQAKEESEK EEQVAEFQKQ KEVLLSLFDE KRHEHLLSKG ERRLSYRALQ GALMIYFYRE EPRFQVPFQL LLSLMDIDSL MTKWRYNHVC MVHRMLGSKA GTGGSSGYHY LRSTVSDRYK VFVDLFLNST YLIPRHWPWK MNPTIHKFLY TAEYCDSSYF SSDESD
Sequence Length	406
Applicable Applications for TDO2 recombinant protein	SDS-PAGE
Tag Information	His-tag
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°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 TDO2 recombinant protein	TDO2, also known as TDO, is a ferrous heme enzyme that catalyzes the first and rate-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism. It incorporates oxygen into the indole moiety of tryptophan. It has a broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin. Recombinant human TDO2 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for TDO2 recombinant protein	Metabolism
References	Murray MF., et al. (2007) Curr Drug Metab. 8 (3):197-200.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5032165
NCBI GeneID	6999
NCBI Accession #	NP_005642
NCBI GenBank Nucleotide #	NM_005651.3
UniProt Accession #	P48775; A8K053
Molecular Weight	50 kDa (426aa), confirmed by MALDI-TOF
NCBI Official Full Name	tryptophan 2,3-dioxygenase
NCBI Official Synonym Full Names	tryptophan 2,3-dioxygenase
NCBI Official Symbol	TDO2
NCBI Official Synonym Symbols	TO; TDO; TPH2; TRPO; HYPTRP
NCBI Protein Information	tryptophan 2,3-dioxygenase
UniProt Protein Name	Tryptophan 2,3-dioxygenase
UniProt Gene Name	TDO2
UniProt Synonym Gene Names	TDO; TO; TRPO

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.