

## Product datasheet for **AR09879PU-S**

### TDO2 / TDO (1-406, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	TDO2 / TDO (1-406, His-tag) human recombinant protein, 10 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MSGCPFLGNN FGYTFKKLPV EGSEEDKSQT GVNRASKGGL IYGNLHLEK VLNAQELQSE TKGNIKHDEH LFIITHQAYE LWFKQILWEL DSVREIFQNG HVRDERNMLK VSRMHRVSV ILKLLVQQFS ILETMTALDF NDFREYLSPA SGFQSLQFRL LENKIGVLQN MRVPYNRRHY RDNFKGEENE LLLKSEQEK LLELVEAWLE RTPGLEPHGF NFWGKLEKNI TRGLEEEFIR IQAKEESEK EEQVAEFQKQ KEVLLSLFDE KRHEHLLSKG ERRLSYRALQ GALMIYFYRE EPRFQVPFQL LTSLMDIDSL MTKWRYNHVC MVHRMLGSKA GTGGSSGYHY LRSTVSDRYK VFVDLNLST YLIPRHWIPK MNPTIHKFLY TAEYCDSSYF SDES
Tag:	His-tag
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5 mM DTT, 1 mM EDTA, 30% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TDO2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_005642</u>
Locus ID:	6999
UniProt ID:	<u>P48775</u>
Cytogenetics:	4q32.1



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**Synonyms:** HYPTRP; TDO; TO; TPH2; TRPO

**Summary:** This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism. [provided by RefSeq, Feb 2012]

**Protein Pathways:** Metabolic pathways, Tryptophan metabolism

**Product images:**

