

Tryptophan 2,3-Dioxygenase Human Recombinant

Item Number	rAP-1444
Synonyms	Tryptophan 2,3-dioxygenase, TDO, Tryptamin 2,3-dioxygenase, Tryptophan oxygenase, TO, TRPO, Tryptophan pyrrolase, Tryptophanase, TDO2, TPH2.
Description	TDO2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 426 amino acids (1-406 a.a.) and having a molecular mass of 50kDa. The TDO2 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P48775
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MSGCPFLGNN FG YTFKKLPV EGSEEDKSQT GVN RASKGGL IYGNYL-HLEK VLNAQELQSE TKG N KIHDEH LFIITHQAYE LWFKQILWEL DSVREIFQNG HVRDERNMLK VVSRMHRVSV ILKLLVQQFS ILETMTALDF NDFREYLSPA SGFQSLQFRL LENKIGVLQN MRVPYN-RRHY RDNFKGEENE LLLKSEQEKT LLELVEAWLE RTPGLEPHGF NFWGKLEKNI TRGLEEEFIR IQAKEESEEEK EEQVAEFQKQ KEVLLSLFDE KRHEHLLSKG ERRLSYRALQ GALMIYFYRE EPRFQVPFQL LTSLMDIDSL MTKWRYNHVC MVHRMLGSKA GTGGSSGYHY LRSTVSDRYK VFVDLFNLST YLIPRHWPWK MNPTIHKFLY TAEYCDSSYF SSDES D.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The TDO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT, 1mM EDTA and 30% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**