

## 32-2842: TDO2 Recombinant Protein

**Alternative Name :** Tryptophan 2,3-dioxygenase, TDO, Tryptamin 2,3-dioxygenase, Tryptophan oxygenase, TO, TRPO, Tryptophan pyrrolase, Tryptophanase, TDO2, TPH2.

### Description

Source : Escherichia Coli. 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. TDO2 is a ferrous heme enzyme that catalyzes the first and rate-limiting step in the kynurenine pathway which is the major pathway of tryptophan metabolism. TDO2 integrates oxygen into the indole moiety of tryptophan. TDO2 has broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin.

### Product Info

**Amount :** 5 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The TDO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT, 1mM EDTA and 30% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MSGCPFLGNN FGYTFKKLPV EGSEEDKSQT GVN RASKGGL IYGNLHLEK VLNAQELQSE TKGNIHDEH LFIITHQAYE LWFKQILWEL DSVREIFQNG HVRDERNMLK VVSRMHRVSV ILKLLVQQFS ILETMTALDF NDFREYLSPA SGFQSLQFRL LENKIGVLQN MRVPYNRRHY RDNFKGEENE LLLKSEQEKT LLELVEAWLE RTPGLEPHGF NFWGKLEKNI TRGLEEEFIR IQAKEESEK EEQVAEFQKQ KEVLLSLFDE KRHEHLLSKG ERRLSYRALQ GALMIYFYRE EPRFQVPFQL LTSLMDIDSL MTKWRYNHVC MVHRMLGSKA GTGGSSGYHY LRSTVSDRYK VFVDLNLST YLIPRHWIPK MNPTIHKFLY TAEYCDSSYF SSEDSD.

