
Product Data Sheet

Product Name: TDO2 Human

Cat. No.: GP22286

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical
Appearance solidShipping
Condition Shipped with Ice Packs.Synonyms Tryptophan 2;3-dioxygenase; TDO; Tryptamin 2;3-dioxygenase;
Tryptophan oxygenase; TO; TRPO; Tryptophan pyrrolase; Tryptophanase;
TDO2; TPH2.Amino Acid
Sequence
MGSSHHHHHH SGLVPRGSH MSGCPFLGNN FGYTFKCLPV EGSEEDKSQT
GVNRASKGGL IYGNYLHLEK 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 VFVDLFLNST YLIPRHWPCK
MNPTIHKFLY TAEYCDSSYF SSDESD.Formulation The TDO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0),
0.2M NaCl, 5mM DTT, 1mM EDTA and 30% glycerol.**Introduction**

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.

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TDO2 Human Recombinant fused with a20 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.

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