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TDO2 Human

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.

Catalog #:ENPS-088

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSGCPFLGNN FGYTFKKLPV EGSEEDKSQT GVNRASKGGL IYGNYLHLEK VLNAQELQSE TKGNKIHDEH LFIITHQAYE LWFKQILWEL DSVREIFQNG HVRDERNMLK VVSRMHRVSV ILKLLVQQFS ILETMTALDF NDFREYLSPA SGFQSLQFRL LENKIGVLQN MRVPYNRRHY RDNFKGEENE LLLKSEQEKT LLELVEAWLE RT

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The TDO2 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT, 1mM EDTA and 30% glycerol.

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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