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TDO2, 1-406aa, Human, His tag, E.coli

产品货号: TP04175

第三版

别名:Tryptophan 2,3-dioxygenase, TDO, TPH2, TRPO

描述:TDO2, also known as TDO, is a ferrous heme enzyme that catalyzes the first and rate-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism. It incorporates oxygen into the indole moiety of tryptophan. It has a broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin. Recombinant human TDO2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 30% glycerol

分子量:50.0 kDa (426aa), confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMSGCPFLGNNFGYTFKKLPVEGSEEDKSQTGVNRASKGGLIYGNYLHLEKVLNAQELQS
ETKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVSRRMHRVSVILKLLVQQFSILETMTALDF
NDFREYLSPASGFQSLQFRLLLENKIGVLQNMVRPYNRRHYRDNFKGEENELLKSEQEKTLLELVEAWLERTPGLEPHGFN
FWGKLEKNITRGLLEEFIRIQAKEESEKKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERRLSYRALQGALMIYFYREEPRF
QVPFQLLTSLMDIDSLMTKWRYNHVCMVHRMLGSKAGTGGSSGYHYLRSTVSDRYKVFVDLNLSTYLIPRHWPVKMNP
TIHKFLYTAEYCDSSYFSSDES

纯度:> 95% by HPLC

浓度:0.25 mg/ml (determined by Bradford assay)

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储:+4 ° C 保存 (1-2 周). 长期保存在-20 ° C或者-70 ° C. 避免反复冻融.