

**tnaA, 1-494aa, E.coli, His tag, E.coli**

**Cat.NO.: TP04236**

3th Edition

**Synonyms:**Tryptophanase/L-cysteine desulfhydrase, PLP-dependent, Tryptophanase

**Description:**tnaA, also known as Tryptophanase/L-cysteine desulfhydrase. Tryptophanase is an enzyme that catalyzes the chemical reaction. Thus, the two substrates of this enzyme are L-tryptophan and H<sub>2</sub>O, whereas its 3 products are indole, pyruvate, and NH<sub>3</sub>. Recombinant E.coli tnaA, fused to His-tag at N-terminus, was expressed in E.coli and purified using conventional chromatography techniques.

**Form:**Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

**Molecular Weight:**55.2kDa (494aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMENFKHLPEPFIRIRVIEPVKRTTRAYREEAIKSGMNPFLDSEDVFIDLLTDS  
GTGAVTQSMQAAMMRGDEAYSGRSYYALAESVKNIFGYQYTIPTHQGRGAEQIYIPVLIKKREQEKGDRSKMVA  
FSNYFFDTTQGHQSINGCTVRNVYIKEAFDTGVRYDFKGNFDLEGLERGIEEVGPNNVPYIVATITNSAGGQPVSL  
ANLKAMYSIAKKYDIPVVMDSARFAENAYFIKQREAEYKDWTIEQITRETYKYADMLAMSAKKDAMVPMGGLLCMK  
DDSFFDVYTECRTLCVVQEGFPTYGGLEGGAMERLAVGLYDGMNLDWLAYRIAQVQYLVDGLEEIGVVCQQAGG  
HAAFVDAGKLLPHIPADQFPAQALACELYKVAGIRAVEIGSFLGRDPKTGKQLPCPAELLRLTIPRATYQTTHMDFII  
EAFKHVKENAANIKGLTFTYEPKVLRHFTAKLKEV

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.