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**Product Data Sheet**


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Product Name: TNAA E.Coli  
 Cat. No.: GP22307  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tryptophanase/L-cysteine desulfhydrase; PLP-dependent; Tryptophanase; TNAA; L-tryptophan indole-lyase; TNase; tnaA; ind.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMENFKHL PEPFRIRVIE PVKRTTRAYR EEAIKSGMN PFLDSEDFV IDLLTDSGTG AVTQSMQAAM MRGDEAYSGS RSYVALAESV KNIFGYQYTI PTHQGRGAEQ IYIPVLIKRR EQEKGLDRSK MVAFSNYFFD TTQGHSEQING CTVRNVYIKE AFDTGVRYDF KGNFDLEGLE RGIEEVGPNN VPYIVATITS NSAGGQPVSL ANLKAMYSIA KKYDIPVVMG SARFAENAYF IKQREAEYKD WTIEQITRET YKYADMLAMS AKKDAMVPMG GLLCMKDDSF FDVYTECTRL CVVQEGFPTY GGLEGGAMER LAVGLYDGMN LDWLAYRIAQ VQYLVDGLEE IGVVCQQAGG HAAFVDAGKL LPHIPADQFP AQALACELYK VAGIRAVEIG SFLGRDPKT GKQLPCPAEL LRLTIPRATY TQTHMDFIIE AFKHVKENAA NIKGLTFTYE PKVLRHFTAK LKEV.		
Formulation	The TNAA solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

**Introduction**

Tryptophanase, also known as tnaA, catalyzes chemical reaction using 2 substrates which are L-tryptophan and H<sub>2</sub>O. tnaA protein's three products are indole, pyruvate, and NH<sub>3</sub>.

**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.

**Background**

TNAA Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain

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

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containing 494 amino acids (1-471) and having a molecular mass of 55.2kDa. TNAA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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