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Product Datasheet

Recombinant E.coli Trp synthase (N-6His) EBT-EPT234

Article Name	Recombinant E.coli Trp synthase (N-6His)
Biozol Catalog Number	EBT-EPT234
Supplier Catalog Number	EPT234
Alternative Catalog Number	EBT-EPT234-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant E.coli Tryptophan Synthase is produced by our E.coli expression system and the target gene encoding Met1-Ser268&Thr2-Ile397 is expressed with a 6His tag at the N-terminus....
Molecular Weight	Molecular weight: 28.7&43.8 KDa. Apparent molecular weight: 28&40-50 KDa, reducing conditions
UniProt	P0A877
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes	<p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p> <p>Background: Tryptophan synthase is a multienzyme $\alpha_2\beta_2$ complex composed of two protein subunit. Tryptophan synthase catalyzes the last two steps in the synthesis of L-tryptophan (L-Trp). The α-subunit catalyzes cleavage of 3-indole-d-glycerol 3'-phosphate (IGP) to give indole and D-glyceraldehyde 3'-phosphate (G3P). Indole is then transferred through a 25-Å hydrophobic tunnel to the β-subunit. The β_2 subunit contains pyridoxal 5-phosphate and catalyzes several pyridoxal 5-phosphate-dependent reactions, including 3-elimination reactions and a thiol-dependent transamination reaction. This enzyme is commonly found in Eubacteria, Archaeobacteria, Protista, Fungi, and Plantae, but is absent from Animalia. As humans do not have tryptophan synthase, this enzyme has been explored as a potential drug target.</p>
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