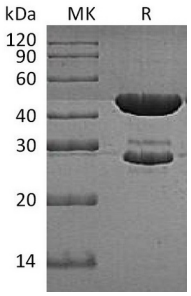
Product Name: Recombinant E.coli Trp synthase (N-6His)
Catalog #: PEV1735

Summary

Name	Tryptophan Synthase
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	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.
Accession #	P0A877&P0A879
Host	E.coli
Species	E.coli
Predicted Molecular Mass	28.7&43.8 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	Tryptophan synthetase; Tryptophan synthase
Background	Tryptophan synthase is a multienzyme α2β2 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 β2 subunit contains pyridoxal 5-phosphate and catalyzes several pyridoxal 5-phosphate-dependent reactions, including/3-elimination reactions 6 and a thiol-dependent transamination reaction. This enzyme is commonly found in Eubacteria, Archaebacteria, 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.

Note

For Research Use Only , Not for Diagnostic Use.