

Recombinant E. coli TrpB protein, His-tagged

Cat. No. trpB-01E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli TrpB protein, fused to His-tag, was expressed in E. coli.
Species	E.coli
Source	E.coli
Description	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 6 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.
Form	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
Molecular Mass	28.7&43.8kDa 28&40-50 kDa
AA Sequence	Met1-Ser268&Thr2-Ile397

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Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Purity	> 95%
Stability	Liquid proteins are stable for up to 6 months when stored at -20 to -80 centigrade. Lyophilized proteins are stable for up to 12 months when stored at -20 to -80 centigrade.
Storage	Store at < -20 centigrade, stable for 6 months. Please minimize freeze-thaw cycles.
Reconstitution	Please refer to the printed manual for detailed information.
Handling	Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents. No smoking at working site.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20 centigrade.

GENE INFORMATION

Gene Name	trpB tryptophan synthase subunit beta [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	trpB
Synonyms	Tryptophan synthetase; Tryptophan synthase
Gene ID	945768
Protein Refseq	NP_415777

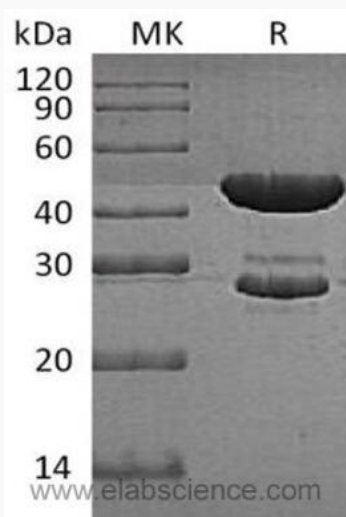
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UniProt ID

P0A879



Recombinant E.coli Tryptophan Synthase Protein (N-His)-Elabscience.

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