Data Sheet (Cat.No.TMPH-00565)

FabB Protein, E. coli, Recombinant (His & Myc & SUMO)

General Information

Synonyms: 3-oxoacyl-[acyl-carrier-protein] synthase 1;3-oxoacyl-[acyl-carrier-protein] synthase I;Beta-ketoacyl-ACP synthase I (KAS I);fabC;fabB

Protein Construction: 1-406 aa

Species: E. coli

Expression Host: E. coli

Accession: P0A953

Molecular Weight: 61.3 kDa (predicted)

AA Sequence: MKRAVITGLGIVSSIGNNQQEVLASLREGRSGITFSQELKDSGMRSHVWGNVKLDTTGLIDRKVVRFMSDASIY AFLSMEQAIADAGLSPEAYQNNPRVGLIAGSGGGSPRFQVFGADAMRGPRGLKAVGPYVVTKAMASGVSAC LATPFKIHGVNYSISSACATSAHCIGNAVEQIQLGKQDIVFAGGGEELCWEMACEFDAMGALSTKYNDTPEKA SRTYDAHRDGFVIAGGGGMVVVEELEHALARGAHIYAEIVGYGATSDGADMVAPSGEGAVRCMKMAMHGV DTPIDYLNSHGTSTPVGDVKELAAIREVFGDKSPAISATKAMTGHSLGAAGVQEAIYSLLMLEHGFIAPSINIEE LDEQAAGLNIVTETTDRELTTVMSNSFGFGGTNATLVMRKLKD

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Involved in the type II fatty acid elongation cycle. Catalyzes the elongation of a wide range of acyl-ACP by the

addition of two carbons from malonyl-ACP to an acyl acceptor. Can also use unsaturated fatty acids. Catalyzes a key reaction in unsaturated fatty acid (UFA) synthesis, the elongation of the cis-3-decenoyl-ACP produced by FabA. Can use acyl chains from C-6 to C-14. Has an absolute requirement for an ACP substrate as the acyl donor, and no activity is detected when both substrates are based on CoA.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481