Recombinant Human MTHFS Protein (His Tag)

Catalog Number: PKSH032029

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

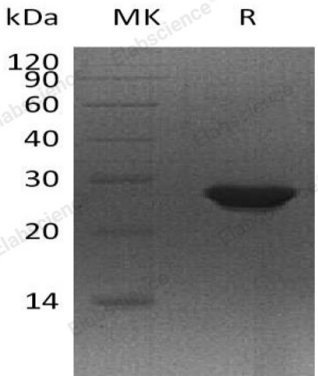
Description

Species	Human
Source	E.coli-derived Human MTHFS protein Met 1-Ala203, with an C-terminal His
Calculated MW	24.3 kDa
Observed MW	28 kDa
Accession	P49914
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 200mM Nacl, 1mM DTT, 50% Glycerol, pH 8.0.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

5-formyltetrahydrofolate cyclo-ligase (MTHFS) belongs to the 5-formyltetrahydrofolate cyclo-ligase family. It is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, contributes to tetrahydrofolate metabolism. MTHFS helps regulate carbon flow through the folate-dependent one-carbon metabolic network that supplies carbon for the biosynthesis of purines, thymidine and amino acids. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion.

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