Recombinant Human PPCDC Protein (His Tag)

Catalog Number: PKSH032896

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

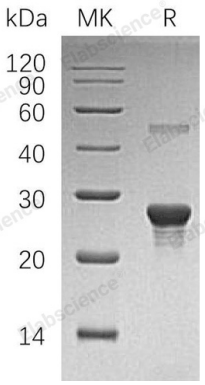
Description

Species	Human
Source	E.coli-derived Human PPCDC protein Met 1-Ser204, with an N-terminal His
Calculated MW	24.6 kDa
Observed MW	27 kDa
Accession	Q96CD2
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, 50mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Phosphopantothenoylcysteine Decarboxylase (PPC-DC) is an essential enzyme in the biosynthesis ofCoenzyme A and catalyzes the decarboxylation of PPC to Phosphopantetheine. PPC-DC catalyzes the decarboxylation of the Cysteine moiety of 4-Phosphopantothenoylcysteine (PPC) to form 4-Phosphopantetheine (PPantSH), this reaction forms part of the biosynthesis of Coenzyme A. The enzyme is a member of the larger family of Cysteine Decarboxylases including the Lantibiotic-Biosynthesizing enzymes EpiD and MrsD, all of which use a tightly bound Flavin cofactor to oxidize the Thiol moiety of the substrate to a Thioaldehyde.

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