Recombinant Protein Technical Manual

Recombinant Human PPCDC Protein (His Tag)

RPES1960

Product Data:

Product SKU: RPES1960

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q96CD2

Protein Information:

Molecular Mass: 24.6 kDa

AP Molecular Mass: 27 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 TrisHCl, 50mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Phosphopantothenoylcysteine Decarboxylase; PPC-DC; PPCDC; COAC

Immunogen Information:

Sequence: Met 1-Ser204

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.