



Recombinant Protein Technical Manual

Recombinant Human BDH1 Protein (His Tag)

RPES2581

Product Data:

Product SKU: RPES2581

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q02338

Protein Information:

Molecular Mass: 40.3 kDa

AP Molecular Mass: 40 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 50mM Tris, 1mM DTT, pH 7.5.

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

Application:

Synonyms: D-Beta-Hydroxybutyrate Dehydrogenase Mitochondrial; BDH; 3-Hydroxybutyrate Dehydrogenase; BDH

Immunogen Information:

Sequence: Met 1-Arg343

Background:

D-Beta-Hydroxybutyrate Dehydrogenase Mitochondrial (BDH) is a member of the short-chain dehydrogenases/reductases (SDR) family. BDH is localized in the mitochondrion matrix. BDH forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific necessity for phosphatidylcholine for optimal enzymatic activity. BDH catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the 2 main ketone bodies formed during fatty acid catabolism.