Recombinant Human ECH1 Protein

Catalog Number: PKSH033275

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

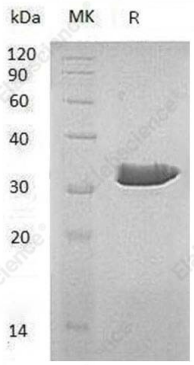
Description

Species	Human
Source	E.coli-derived Human ECH1 protein Thr34-Leu328, with an N-terminal His
Calculated MW	34.5 kDa
Observed MW	30-35 kDa
Accession	Q13011
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 20 mM Tris-HCl, 150 mM NaCl, 8% Trehalose, 0.05% tween80, pH8.5.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Human delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase(ECH1) is a member of the hydratase/isomerase superfamily and contains a C-terminal peroxisomal targeting sequence and localizes to peroxisomes. ECH1 shows high sequence similarity to enoyl-CoA hydratases of several species, particularly within a conserved domain characteristic of these proteins. The rat orthologlocalizes to the matrix of both the peroxisome and mitochondria.It can isomerize 3-trans, 5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomeras e. ECH1 plays an important role in the auxiliary step of the fatty acid beta-oxidation pathway.

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