

Recombinant Human Sedoheptulokinase/SHPK Protein (His Tag)

Catalog No. PKSH033014

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

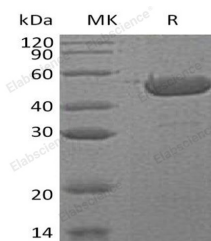
Description

Synonyms	Sedoheptulokinase;SHK;Carbohydrate kinase-like protein;SHPK;CARKL
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ser478
Accession	AAH20543.1
Calculated Molecular Weight	52.5 kDa
Observed molecular weight	53 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
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, 500mM NaCl, 10% Glycerol, 3mM DTT, pH7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Sedoheptulokinase (SHPK) belongs to the FGGY kinase family, and is mainly located in cytoplasm. SHPK is strongly expressed in liver, kidney and pancreas. It is expressed at lower levels in placenta and heart, and very weakly expressed in lung and brain. SHPK catalyzes the chemical reaction: ATP + sedoheptulose = ADP + sedoheptulose 7-phosphate. It can transform sedoheptulose to sedoheptulose 7-phosphate in the condition of ATP, and acts as a modulator of macrophage activation through control of glucose metabolism. In addition, It also can be down-regulated by LPS.

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