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Datasheet for ABIN7318903 PSPH Protein (His tag)

Overview

Quantity:	50 µg
Target:	PSPH
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSPH protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PSPH Protein (His Tag)
Sequence:	Met 1-Glu225
Characteristics:	Recombinant Human Phosphoserine Phosphatase is produced by our E.coli expression system and the target gene encoding Met1-Glu225 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PSPH
Alternative Name:	PSPH (PSPH Products)
Background:	Background: Phosphoserine phosphatase (PSP) is an enzyme that belongs to the serB family. PSPH catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. The reaction mechanism

Target Details

proceeds via the formation of a phosphoryl-enzyme intermediates. Deficiency of this protein is thought to be linked to Williams syndrome. A disorder that results in pre- and postnatal growth retardation, moderate psychomotor retardation and facial features suggestive of Williams syndrome.

Synonym: Phosphoserine Phosphatase, PSP, PSPase, L-3-Phosphoserine Phosphatase, O-Phosphoserine Phosphohydrolase, PSPH

Molecular Weight:	26.1 kDa
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UniProt:	P78330
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Pathways:	Warburg Effect
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM Tris, 250 mM NaCl, 50 mM Imidazole, pH 8.5 .
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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