



Recombinant Protein Technical Manual

Recombinant Human PSPH Protein (His Tag)

RPES1980

Product Data:

Product SKU: RPES1980

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P78330

Protein Information:

Molecular Mass: 26.1 kDa

AP Molecular Mass: 29 kDa

Tag: C-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, 250mM NaCl, 50mM Imidazole, pH 8.5 .

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

Application:

Synonyms: Phosphoserine Phosphatase; PSP; PSPase; L-3-Phosphoserine Phosphatase; O-Phosphoserine Phosphohydrolase; PSPH

Immunogen Information:

Sequence: Met 1-Glu225

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 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.