

ACPL2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76713
Synonyms:	2-phosphoxylose phosphatase 1; Acid phosphatase-like protein 2; PXYLP1; HEL124
Species:	Human
Source:	HEK293
Accession:	Q8TE99 (M1-F480)
Gene ID:	92370
Molecular Weight:	Approximately 50 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ACPL2 protein assumes a crucial role in the regulation of mature glycosaminoglycan (GAG) chains by catalyzing the 2-O-dephosphorylation of xylose within the glycosaminoglycan-protein linkage region of proteoglycans. This process holds significance in the synthesis of sulfated GAGs, such as heparan sulfate and chondroitin sulfate, on the common GAG-protein linkage region (GlcUAβ1-3Galβ1-3Galβ1-4Xylβ1-O-Ser) of core proteins. The stepwise addition of monosaccharide residues by specific glycosyltransferases leads to the formation of this linkage region, with xylose 2-O-dephosphorylation serving as a prerequisite for the initiation and efficient elongation of the repeating disaccharide region of GAG chains. ACPL2's enzymatic activity in this context underscores its pivotal role in the fine-tuned control of GAG chain assembly, contributing to the precise regulation of glycosaminoglycan structures.
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Caution: Product has not been fully validated for medical applications. For research use only.

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