Biotinylated Canine Prostatic Acid Phosphatase/ACP3 Protein

Cat. No. ACP-DM403B

Description

Source	Recombinant Biotinylated Canine Prostatic Acid Phosphatase/ACP3 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Lys33-Val383.
Accession	A0A8I3PZE0
Molecular Weight	The protein has a predicted MW of 43.56 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Supplied as 0.22 μm filtered solution in 20mM NaAc, 20%Glycerol (pH 5.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

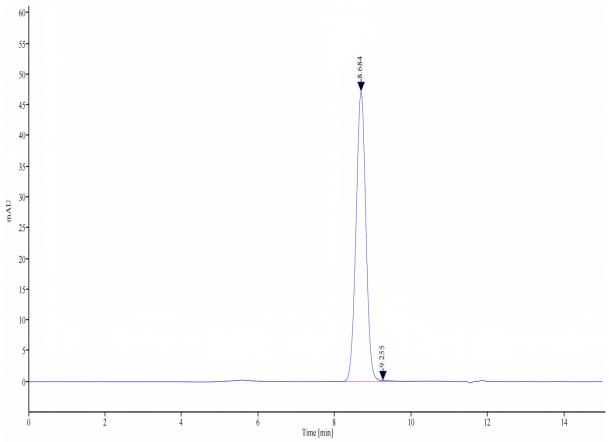
Human PAcP is classically known as a prostate epithelium-specific 100 kDa glycoprotein [20], consisting of two subunits with molecular weight of about 50 kDa each [21]. In normal differentiated prostate epithelia, PAcP protein can be detected intracellularly as the cellular form (cPAcP) and in seminal fluid as the secretory form (sPAcP). The two forms of PAcP protein are apparently transcribed from the same gene followed by different post-transcriptional modifications. Circulating PAcP activity is serving as a surrogate marker for diagnosing PCa as well as for evaluating the efficacy of ADT for advanced PCa.

Assay Data

Bis-Tris PAGE

Biotinylated Canine ACP3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Canine ACP3 is greater than 95% as determined by SEC-HPLC.