

Human Prostatic Acid Phosphatase Protein

Cat. No. ACP-HM102

Description

Source	Recombinant Human Prostatic Acid Phosphatase Protein is expressed from HEK293 with His tag at the C-terminus. It contains Lys33-Lys382.
Accession	P15309-2
Molecular Weight	The protein has a predicted MW of 42.25 kDa. Due to glycosylation, the protein migrates to 45-55 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

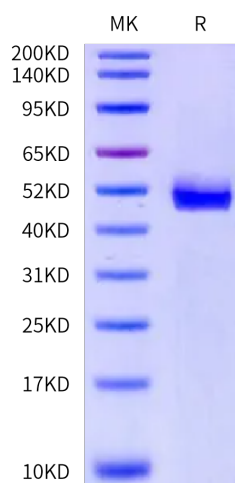
Formulation	Supplied as 0.22 µm filtered solution in 20mM NaAc, 20% glycerol (pH 5.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

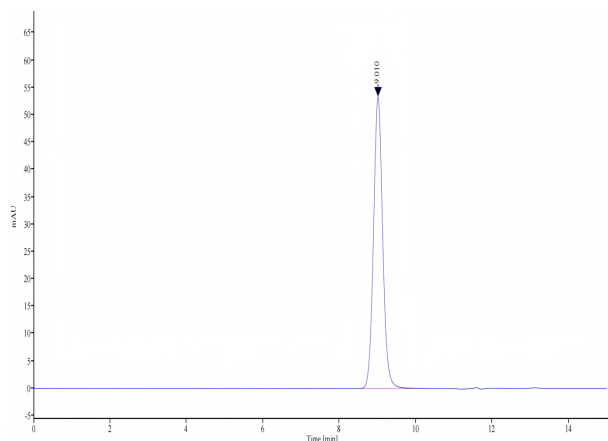
Assay Data

Bis-Tris PAGE



Human Prostatic Acid Phosphatase on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Prostatic Acid Phosphatase is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave a substrate, p-Nitrophenyl phosphate (pNPP). The specific activity is >100000 pmol/min/ug.