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## Product Data Sheet

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Product Name: PAP Human

Cat. No.: GP26171

Batch No.: 1

### Product Data

Purity >98% Source Pooled human seminal fluid.

Physical Appearance solid Shipping Condition atRoomtemp.

Solubility It is recommended to reconstitute the lyophilized PAP Human in phosphate buffer containing 0.15M NaCl.

Formulation PAP Human is lyophilized (0.2  $\mu$ m filtered) from 0.02M NH<sub>4</sub>HCO<sub>3</sub>.

### Introduction

Prostatic acid phosphatase, also known as PAP, is an enzyme produced by the prostate. PAP may be found in increased amounts in men with prostate cancer. PAP's physiological function may be associated with the liquefaction process of semen. The highest levels of PAP are found in metastasized prostate cancer. Diseases of the bone, such as Paget's disease or hyperparathyroidism, diseases of blood cells (sickle-cell disease) or multiple myeloma or lysosomal storage diseases (Gaucher's disease), will show moderately higher levels. Certain medications can cause temporary changes in PAP levels. Manipulation of the prostate gland through rectal exam, biopsy or massage may increase the level.

### Stability

PAP Human although stable at room temperature for 3 weeks, should be stored between 2-8°C.

### Background

Human Prostate Acid Phosphatase produced in Pooled human seminal fluid having a molecular mass of approximately 100kD.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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