

# Pefachrome<sup>®</sup> PAP

**Application:** Highly sensitive chromogenic peptide substrate for papain. Determination of papain activity for research, in-process and quality control.

**Formula:** 3-PhPr-Pro-Phe-Arg-pNA·AcOH

**Principle:** 3-PhPr-Pro-Phe-Arg-pNA + E ==> 3-PhPr-Pro-Phe-Arg-OH + pNA + E  
E = papain

**MW:** 730.8

**K<sub>M</sub>:** 0.20 mM **V<sub>max</sub>:** 35.6 μmol/min

**Storage:** May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2-8°C. Avoid contamination of the reagents by micro-organisms.  
Shipment of product does not require cooling during the time of transportation.

**Material required but not provided:**

Buffer, Papain 0.2mg/ml, Dithioerythritol 20% in water, EDTA 10 mM in water

**Buffer:** 50 mM phosphate buffer, pH 6.0, 150 mM NaCl

**Assay:** Suggested protocol for the determination of papain:

1.400 ml buffer  
0.100 ml Papain  
0.100 ml Dithioerythritol  
0.100 ml EDTA  
=> incubate for 3 min at 37 °C  
0.300 ml Pefachrome<sup>®</sup>PAP (1.5 mM in dist. water)  
=> Determination of ΔOD/min at 405 nm

**Package size:** Vial containing 25 mg  
Bulk [g]

**Code:** 090-12

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