

**PENTAPHARM**

# Pefachrome<sup>®</sup> C1E 5603

**Application:** Pefachrome<sup>®</sup>C1E, a highly sensitive chromogenic substrate for C1-esterase, is used for the determination of C1-esterase inhibitor (C1INH) in plasma. C1INH is a regulatory protein that acts as an inhibitor of various serine proteases in the complement system, the kallikrein-kinin system, the coagulation cascade and in fibrinolysis.

**Formula:** CH<sub>3</sub>CO-Lys(Cbo)-Gly-Arg-pNA·AcOH

**Principle:** C1INH activity is determined by adding an excess of C1-esterase to a plasma sample. A complex of C1-esterase and C1INH is formed and the residual C1-esterase is determined spectrophotometrically by using Pefachrome<sup>®</sup> C1E 5603.

**MW:** 715.8

**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, reference material

**Buffer:** 50 mM Tris-imidazole buffer pH 8.4, 300 mM NaCl

**Assay:** Suggested protocol for the determination of C1-INH:

0.100 ml Plasma  
0.100 ml C1-esterase  
⇒ incubate for 5 min at 37 °C  
0.700 ml buffer  
0.100 ml Pefachrome<sup>®</sup>C1E (4 mM in water)  
=> Determination of ΔOD/min at 405 nm

**Package size:** Bulk [g]

**Code:** 087-03

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