

Molecular Innovations, Inc.

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Certificate of Analysis

Product: D-VLK-pNA (Plasmin Substrate) – DVLK

Date: April 6, 2011

Lot: DVLK-411

Molecular Weight: 555.1 Da

Composition:

Each vial contains 25 mg chromogenic substrate and 60 mg mannitol as a bulking agent.

Principle:

H-D-Val-Leu-Lys-pNA $\xrightarrow{\text{Enzyme}}$ H-D Val-Leu-Lys-OH + pNA

The method for the determination of activity is based on the difference in absorbance between the pNA formed and the original substrate. The rate of pNA formation, i.e. the increase in absorbance per second at 405nm, is proportional to the enzymatic activity and is determined with a spectrophotometer.

Chemistry:

Chemical Name: H-D-Valyl-L-Leucyl-L-lysine-p-nitroaniline dihydrochloride
Formula: H-D-Val-Leu-Lys-pNA•2HCl
 ϵ_{max} : 12,700 mol⁻¹ cm⁻¹ (λ_{max} 316 in H₂O)

Storage:

Store desiccated at 4°C or colder.
Suitable stock: 10 mmol/L in 1 mM HCL in H₂O.
Suggested working concentration: 0.2 mmol/L in TBS. User must determine appropriate actual working concentration.

Duane E. Day

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