

Product Data Sheet

Product Name: D-Val-Leu-Lys-pNA

Cat. No.: GC92026

Chemical Properties

Cas. No. 63589-93-5

Chemical Name D-valyl-L-leucyl-N-(4-nitrophenyl)-L-lysineamide

SMILES CC(C)[C@@H](N)C(N[C@@H](CC(C)C)C(N[C@@H](CCCCN)C(=O)Nc1ccc([N+](=O)[O-])=O)=O.Cl.Cl

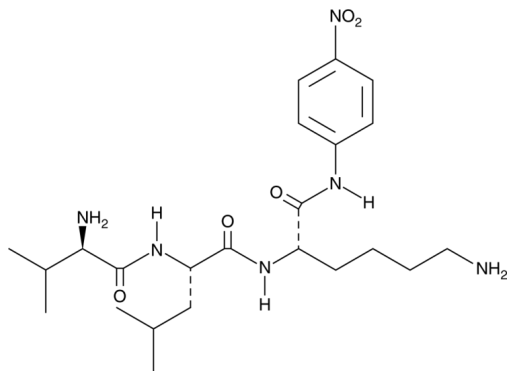
Formula $C_{23}H_{38}N_6O_5$ M.Wt 478.6

Solubility Water: Soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

D-Val-Leu-Lys-pNA is a colorimetric substrate for plasmin.^{1,2} Plasmin binds and hydrolyzes D-Val-Leu-Lys-pNA to release *p*-nitroanilide (pNA), which can be quantified by colorimetric detection at 405 nm as a measure of plasmin activity.

References:

[1]. Gohda, K., Fujimori, K., Teno, N., et al. Synthetic substrates specific to activated plasmin can

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

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monitor the enzymatic functional status in situ in breast cancer cellsChem. Biol. Drug Des.83(1)52-57(2014).

[2]. Leite, J.A.S., Montoya, C.A., Loveday, S.M., et al.Heat-treatments affect protease activities and peptide profiles of ruminants' milkFront. Nutr.8626475(2021).

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