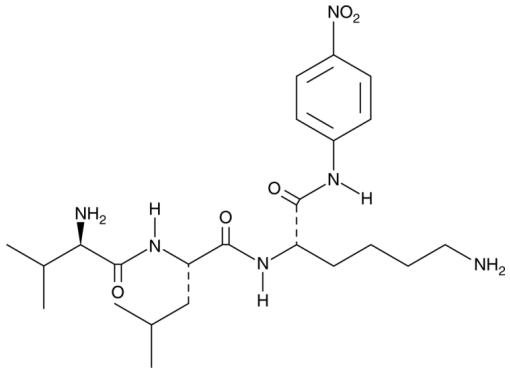
Product Data Sheet

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-lysinamide		
SMILES	CC(C)[C@@H](N)C(N[C@@H](CC(C)C)C(N[C@@H](CCCCN)C(NC1=CC=C(C=C1)[N+]([O-])=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-*p*NA is a colorimetric substrate for plasmin.[1,2] Plasmin binds and hydrolyzes D-Val-Leu-Lys-*p*NA to release *p*-nitroanilide (*p*NA), 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

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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).