Product Data Sheet

Product Name: Boc-Val-Leu-Gly-Arg-pNA
Cat. No.: GA21162

Chemical Properties

Cas. No.	68223-95-0		
Formula	$C_{30}H_{49}N_9O_8$	M.Wt	663.78
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Boc-Val-Leu-Gly-Arg-pNA		

Protocol

Boc-Val-Leu-Gly-Arg-pNA□□□□□□□□[1]
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1.□□□□□□□□Boc-Val-Leu-Gly-Arg-pNA□□□□□□□□□□□□□□□0.1mM□0.5mM□□□□0.1M Tris-HCl □□□□pH=8.0□□□□0.5M□$MgCl_2$□□□□□□□□□□□□0111-B4□□□□□□□□□□□□□□□□□□□□□□□0.1%□□□□□Tachypleus□Limulus□□□□□□
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3.□□□□□□□□□□□□□□0.8ml□□□Tris-HCl□□□□pH=8.0□□□□□□□50μl 0.5M $MgCl_2$□□□□20μl□□□□□□□□37°C□□□3□□□□□□20-50μl□□□□□□□□□□□□□37°C□□15□□□□□□□□□□30□60□240□□□□□□□□□□100μl□□□□□□□□□□□□□□□405nm□□□□□□□□□□□□□□□pNA□□□□□□□□□□□□□□□□□
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References:

[1] Iwanaga S, Morita T, Harada T, et al. Chromogenic substrates for horseshoe crab clotting enzyme. Its application for the assay of bacterial endotoxins. Haemostasis.

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1978;7(2-3):183-8.

Background

Boc-Val-Leu-Gly-Arg-pNA is a chromogenic peptide substrate. Boc-Val-Leu-Gly-Arg-pNA can be specifically hydrolyzed by the limulus clotting enzyme, releasing p-nitroaniline (pNA) to produce a color change. Boc-Val-Leu-Gly-Arg-pNA can be used for quantitative detection of endotoxins and in research related to limulus amebocyte lysate (LAL) reagents[1-3].

References:

[1] Bahgat M, Aboul-Enein MN, El Azzouny AA, et al. A cyclohexanecarboxamide derivative with inhibitory effects on Schistosoma mansoni cercarial serine protease and penetration of mice skin by the parasite. Acta Pol Pharm. 2009 May-Jun;66(3):333-40.
[2] Bahgat M, Khalifa N. Differential inhibitory effect of newly synthesized pyridine-2-one derivatives on the cercarial serine protease activity of the parasite Schistosoma mansoni. Acta Pol Pharm. 2006 May-Jun;63(3):181-8.
[3] Iwanaga S, Morita T, Harada T, et al. Chromogenic substrates for horseshoe crab clotting enzyme. Its application for the assay of bacterial endotoxins. Haemostasis. 1978;7(2-3):183-8.

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