Product Data Sheet

Product Name: Z-Ala-OSu
Cat. No.: GA11313

Chemical Properties

Cas. No.	3401-36-3		
Chemical Name	(2,5-dioxopyrrolidin-1-yl) (2S)-2-(phenylmethoxycarbonylamino)propanoate		
SMILES	CC(C(=O)ON1C(=O)CCC1=O)NC(=O)OCC2=CC=CC=C2		
Formula	$C_{15}H_{16}N_2O_6$	M.Wt	320.3
Solubility	Soluble in water or 1% acetic acid	Storage	Desiccate at -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.		

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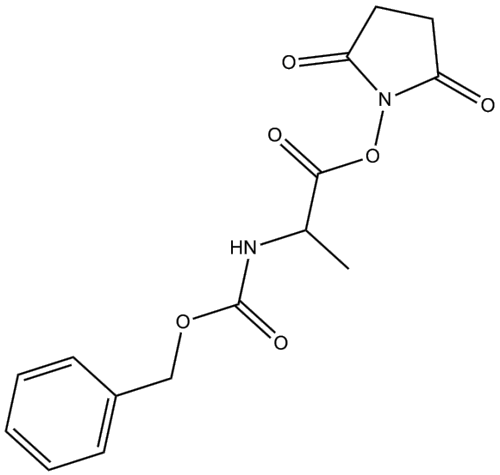
Product Data Sheet

Structure



Background

Z-Ala-OSu is an alanine derivative with N-hydroxysuccinimide ester [1]. Z-Ala-OSu can react with Ala-NHPro-Val-Ala-Ala-NH HCl at room temperature for 60 hours to form hydrazinopeptides [2]. Z-Ala-OSu can be used as a starting material for the synthesis of Z-Ala-Ala-NH_2 and related polypeptide chains[3].

References:
[1] Wallace D A, Bates S R, Walker B, et al. Competitive inhibition of human skin collagenase by N-benzyloxycarbonyl-L-prolyl-L-alanyl-3-amino-2-oxopropyl-L-leucyl-L-alanylglycine ethyl ester[J]. Biochemical Journal, 1986, 239(3): 797.
[2] Guy L, Vidal J, Collet A, et al. Design and synthesis of hydrazinopeptides and their evaluation as human leukocyte elastase inhibitors[J]. Journal of medicinal chemistry, 1998, 41(24): 4833-4843.
[3] Katakai R, Oya M, Toda F, et al. A Novel Synthesis of Sequential Polypeptides[J]. Macromolecules, 1973, 6(6): 827-831.

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