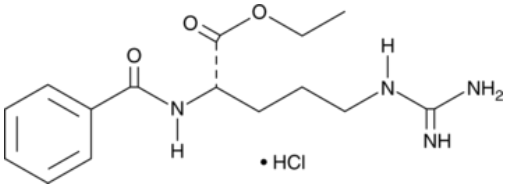
Product Data Sheet

Product Name: N-α-Benzoyl-L-Arginine ethyl ester (hydrochloride)
Cat. No.: GC45531

Chemical Properties

Cas. No.	2645-08-1		
SMILES	O=C(N[C@H](C(OCC)=O)CCCNC(N)=N)C1=CC=CC=C1.Cl		
Formula	C15H22N4O3.HCl	M.Wt	342.8
Solubility	DMF: 33 mg/ml,DMSO: 10 mg/ml,Ethanol: 10 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store 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.		

Structure



Background

N-α-Benzoyl-L-arginine ethyl ester (BAEE) is a nonpeptide substrate of proteases and deiminases.1,2,3,4,5 It has been used as a substrate for the relative quantification of trypsin activity.1,2 BAEE has also been used as a substrate for the activity of subtilisins, kallikreins, and protein arginine deiminase 4 (PAD4).3,4,5

References

1. Crowell, A.M.J., Stewart, E.J., Take, Z.S., et al. Critical assessment of the spectroscopic activity assay for monitoring trypsin activity in organic-aqueous solvent. Anal. Biochem. 435(2), 131-136 (2013).
2. Rajabi, M., Shareghi, B., Farhadian, S., et al. Evaluation of maltose on conformation and activity parameters of trypsin. J. Biomol. Struct. Dyn. (2018).
3. Glazer, A.N. Esteratic reactions catalyzed by subtilisins. J. Biol. Chem. 242(3), 433-436 (1967).

Caution: Product has not been fully validated for medical applications. For research use only.
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4. Ran, X., Zhang, Q., and Wang, D.W. Tissue kallikrein activity, detected by a novel method, may be a predictor of recurrent stroke: A case-control study. Dis. Markers 159750 (2015).
5. Kearney, P.L., Bhatia, M., Jones, N.G., et al. Kinetic characterization of protein arginine deiminase 4: A transcriptional corepressor implicated in the onset and progression of rheumatoid arthritis. Biochemistry 44(31), 10570-10582 (2005).

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