

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)CCCN(C(=N)N)C1=CC=CC=C1.Cl

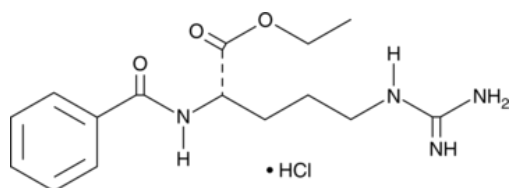
Formula C15H22N4O3.HCl M.Wt 342.8

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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