Product Data Sheet

Product Name: PA 1 dihydrochloride
Cat. No.: GC50168

Chemical Properties

Cas. No.			
SMILES	O=C(NC(NC2=CC=C(/N=N/C3=CC=CC=C3)C=C2)=N)C1=C(N)N=C(N)C(Cl)=N1.Cl.Cl		
Formula	$C_{18}H_{16}ClN_9O.2HCl$	M.Wt	482.75
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	PA 1 dihydrochloride		

Background

Photoswitchable epithelial sodium channel (ENaC) blocker (IC50 values are 90 and 390 nM for αβγ and δβγENaCs, respectively, in the trans conformation). Switches conformation from cis to trans at 500 nm and trans to cis at 400 nm. Blocks ENaCs with greater efficacy in the cis conformation, in comparison to the trans conformation, in Xenopus oocytes and HEK293t cells. Partially blocks δβγENaCs in the trans conformation and exhibits near maximal block of δβγENaCs in the cis conformation. Amiloride derivative.

Schönberger et al (2014) Controlling epithelial sodium channels with light using photoswitchable amilorides. Nat.Chem. 6 712 PMID:25054942

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