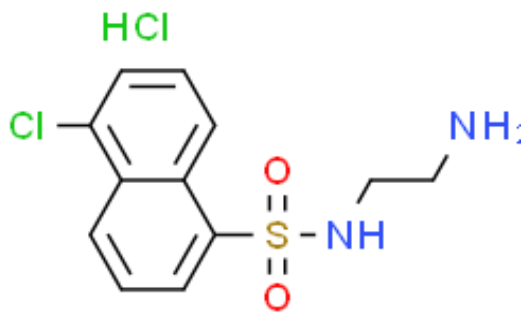


Product Data Sheet

Cas No.:	78957-85-4	Cat. No:	PL09871
Product Name:	A-3 hydrochloride		
Product synonym:	3-硝基苯硼酸频哪醇酯;A-3盐酸;A-3盐酸盐;N-(2-氨基乙基)-5-氯-1-萘磺酰胺盐酸盐;N-（2-氨基乙基）-5-氯-1-萘磺酰胺, 盐酸盐		
Chemical name:	A-3 hydrochloride		
MF:	C12H13N2O2SCL.HCL	FW:	321.22276
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	Cl.NCCNS(C1=CC=CC2C(=CC=CC1=2)Cl)(=O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

A-3 hydrochloride 是靶向多种激酶 (kinase) 的强效、细胞渗透的、可逆的、ATP 竞争性的非选择性拮抗剂。A-3 hydrochloride 是针对 PKA ($K_i=4.3 \mu\text{M}$)，酪蛋白激酶 II ($K_i=5.1 \mu\text{M}$) 和肌球蛋白轻链激酶 (MLCK) ($K_i=7.4 \mu\text{M}$) 的抑制剂。A-3 hydrochloride 还抑制 PKC 和酪蛋白激酶 I 的活性， K_i 分别为 $47 \mu\text{M}$ 和 $80 \mu\text{M}$ 。

生物活性	A-3 hydrochloride is a potent, cell-permeable, reversible, ATP-competitive non-selective antagonist of various kinases. It against PKA ($K_i=4.3 \mu\text{M}$), casein kinase II ($K_i=5.1 \mu\text{M}$) and myosin light chain kinase (MLCK) ($K_i=7.4 \mu\text{M}$). A-3 hydrochloride also inhibits PKC and casein kinase I with K_i values of $47 \mu\text{M}$ and $80 \mu\text{M}$, respectively.
IC ₅₀ & Target[1][2]	CK1 $80 \mu\text{M}$ (K_i) CK2 $5.1 \mu\text{M}$ (K_i)
体外研究(In Vitro)	A-3 hydrochloride inhibits MLC-kinase competitively with respect to ATP and that the K_i value is $7.4 \mu\text{M}$. A-3 is also a competitive inhibitor of cAMP-dependent protein kinase, cGMP-dependent protein kinase, protein kinase C, casein kinase I, and casein kinase II, with respect to ATP, exhibits K_i values of $4.3 \mu\text{M}$, $3.8 \mu\text{M}$, $47 \mu\text{M}$, $80 \mu\text{M}$, and $5.1 \mu\text{M}$, respectively. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	4°C , sealed storage, away from moistur In solvent : -80°C , 6 months; -20°C , 1 month (sealed storage, away from moisture)

溶解度数据	In Vitro: DMSO : 125 mg/mL (389.14 mM; Need ultrasonic)H ₂ O : 50 mg/mL (155.66 mM; Need ultrasonic)配制储备液
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