4-Nitrophenyl 4-guanidinobenzoate hydrochloride

Cat. No.: HY-137814

CAS No.: 19135-17-2

Molecular Formula: $C_{14}H_{13}ClN_4O_4$

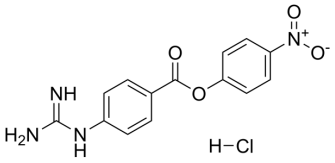
Molecular Weight: 336.73

Target: Ser/Thr Protease

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (296.97 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9697 mL	14.8487 mL	29.6974 mL
	5 mM	0.5939 mL	2.9697 mL	5.9395 mL
	10 mM	0.2970 mL	1.4849 mL	2.9697 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 5 mg/mL (14.85 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5 mg/mL (14.85 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 5 mg/mL (14.85 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl 4-guanidinobenzoate (NPGB) hydrochloride is a potent sperm acrosin inhibitor, and also a trypsin substrate[1].

REFERENCES

[1]. J M Kaminski, et al. Synthesis and inhibition of human acrosin and trypsin and acute toxicity of aryl 4-guanidinobenzoates. J Med Chem. 1986 Apr;29(4):514-9.

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

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