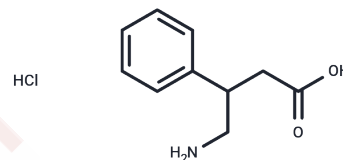


Phenibut (hydrochloride)

Chemical Properties

CAS No. :	3060-41-1
Formula:	C ₁₀ H ₁₄ ClNO ₂
Molecular Weight:	215.68
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Phenibut hydrochloride (3-Amino-4-phenylbutyric acid hydrochloride) is a GABA mimetic that acts as an agonist at GABAB receptors, blocks $\alpha 2\delta$ subunit-containing voltage-gated calcium channels, stimulates dopamine receptors, and inhibits the actions of β -phenethylamine
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	DMSO: 27.5 mg/mL (127.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (9.27 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6365 mL	23.1825 mL	46.365 mL
5 mM	0.9273 mL	4.6365 mL	9.273 mL
10 mM	0.4636 mL	2.3182 mL	4.6365 mL
50 mM	0.0927 mL	0.4636 mL	0.9273 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zvejniece L , Vavers E , Svalbe B , et al. R-phenibut binds to the $\alpha 2$ - δ subunit of voltage-dependent calcium channels and exerts gabapentin-like anti-nociceptive effects.[J]. Pharmacol Biochem Behav, 2015:23-29.

Lapin I . Phenibut (beta-phenyl-GABA): a tranquilizer and nootropic drug.[J]. Cns Drug Reviews, 2010, 7(4):471-481.

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