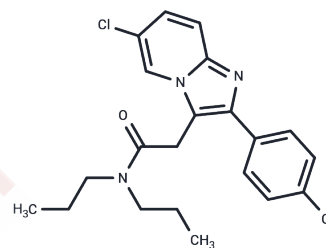


Alpidem

Chemical Properties

CAS No. :	82626-01-5
Formula:	C ₂₁ H ₂₃ Cl ₂ N ₃ O
Molecular Weight:	404.33
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	Alpidem (Ananxyl) is an anxiolytic drug from the imidazopyridine family. Alpidem does not produce sedative effects at normal doses, and is instead used specifically for the treatment of anxiety. Alpidem has nanomolar binding affinity for both the central benzodiazepine
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	DMSO: 51 mg/mL (126.13 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: 5.1 mg/mL (12.61 mM), Solution. 10% DMSO+90% Saline: < 5.1 mg/mL (12.61 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 2 mg/mL (4.95 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	2.4732 mL	12.3661 mL	24.7323 mL
5 mM	0.4946 mL	2.4732 mL	4.9465 mL
10 mM	0.2473 mL	1.2366 mL	2.4732 mL
50 mM	0.0495 mL	0.2473 mL	0.4946 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

Divya K Nair, et al. Synthesis of imidazopyridines from the Morita-Baylis-Hillman acetates of nitroalkenes and convenient access to Alpidem and Zolpidem. *Org Lett*. 2012 Sep 7;14(17):4580-3.

Natalia Chernyak, et al. General and efficient copper-catalyzed three-component coupling reaction towards imidazoheterocycles: one-pot synthesis of alpidem and zolpidem. *Angew Chem Int Ed Engl*. 2010 Apr 1;49(15):2743-6.

Andrea Cappelli, et al. Synthesis and structure-activity relationship studies in peripheral benzodiazepine receptor ligands related to alpidem. *Bioorg Med Chem*. 2008 Mar 15;16(6):3428-37.

Giuseppe Trapani, et al. Alpidem analogues containing a GABA or glycine moiety as new anticonvulsant agents. *Eur J Pharm Sci*. 2003 Mar;18(3-4):231-40.

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