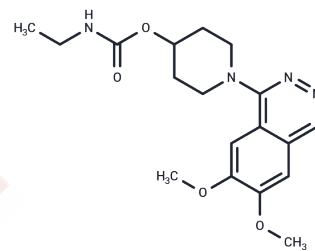


Carbazeran

Chemical Properties

CAS No. :	70724-25-3
Formula:	C ₁₈ H ₂₄ N ₄ O ₄
Molecular Weight:	360.41
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	Carbazeran (UK-31,557) is an inhibitor of PDE2 and PDE3 and can be used for studies about metabolic diseases. Carbazeran shows inotropic and chronotropic effects in vivo (EC ₅₀ = 100 μM).
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: 150 mg/mL (416.19 mM), Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (27.75 mM), Solution. <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	2.7746 mL	13.8731 mL	27.7462 mL
5 mM	0.5549 mL	2.7746 mL	5.5492 mL
10 mM	0.2775 mL	1.3873 mL	2.7746 mL
50 mM	0.0555 mL	0.2775 mL	0.5549 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

- Manevski N, et al. Aldehyde oxidase activity in fresh human skin. *Drug Metab Dispos.* 2014 Dec;42(12):2049-57.
- Fu C, et al. Aldehyde oxidase 1 (AOX1) in human liver cytosols: quantitative characterization of AOX1 expression level and activity relationship. *Drug Metab Dispos.* 2013 Oct;41(10):1797-804.
- Sharma R, et al. Deuterium isotope effects on drug pharmacokinetics. I. System-dependent effects of specific deuteration with aldehyde oxidase cleared drugs. *Drug Metab Dispos.* 2012 Mar;40(3):625-34.
- Hutzler JM, et al. Characterization of aldehyde oxidase enzyme activity in cryopreserved human hepatocytes. *Drug Metab Dispos.* 2012 Feb;40(2):267-75.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481