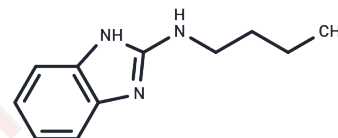


M084

Chemical Properties

CAS No. : 51314-51-3
 Formula: C₁₁H₁₅N₃
 Molecular Weight: 189.26
 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	M084 (N-Butyl-1H-benzimidazol-2-amine) is a blocker of TRPC4/5 channel, with antidepressant and anxiolytic effects.
Targets(IC50)	Mitochondrial Metabolism, TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 25 mg/mL (132.09 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 (10.57 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	5.2837 mL	26.4187 mL	52.8374 mL
5 mM	1.0567 mL	5.2837 mL	10.5675 mL
10 mM	0.5284 mL	2.6419 mL	5.2837 mL
50 mM	0.1057 mL	0.5284 mL	1.0567 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

Wang, Fangjun, Yu, et al. Protein digestomic analysis reveals the bioactivity of deer antler velvet in simulated gastrointestinal digestion[J]. Food Research International, 2017.

Gorodetzky C W , Walsh S L , Martin P R , et al. A phase III, randomized, multi-center, double blind, placebo controlled study of safety and efficacy of lofexidine for relief of symptoms in individuals undergoing inpatient opioid withdrawal[J]. Drug and Alcohol Dependence, 2017, 176:79-88.

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