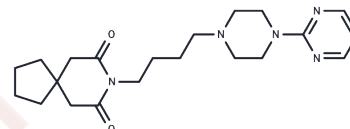


## Buspirone

## Chemical Properties

CAS No. :	36505-84-7
Formula:	C <sub>21</sub> H <sub>31</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	385.5
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	Buspirone (Buspirone free base) is an azaspiro compound which has a role as an anxiolytic drug, a sedative, a serotonergic agonist and an EC 3.4.21.26 (prolyl oligopeptidase) inhibitor.
Targets(IC50)	Reactive Oxygen Species,5-HT Receptor,Dopamine Receptor,ROS

## Solubility Information

Solubility	DMSO: 27 mg/mL (70.04 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: 1 mg/mL (2.59 mM),Sonication is recommended. 10% DMSO+90% Saline: 2.7 mg/mL (7 mM),Suspension. <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	2.594 mL	12.9702 mL	25.9403 mL
5 mM	0.5188 mL	2.594 mL	5.1881 mL
10 mM	0.2594 mL	1.297 mL	2.594 mL
50 mM	0.0519 mL	0.2594 mL	0.5188 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

- Torrisi SA, et al. Bupirone Counteracts MK-801-Induced Schizophrenia-Like Phenotypes through Dopamine D(3) Receptor Blockade. *Front Pharmacol.* 2017 Oct 4;8:710.
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- Di Ciano P, et al. The effects of bupirone on occupancy of dopamine receptors and the rat gambling task. *Psychopharmacology (Berl).* 2017 Nov;234(22):3309-3320.
- Santa Cruz MR, et al. Bupirone for the treatment of dementia with behavioral disturbance. *Int Psychogeriatr.* 2017 May;29(5):859-862.

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