

BW 723C86

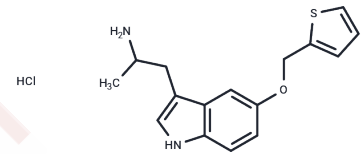
Chemical Properties

CAS No. : 160521-72-2

Formula: C₁₆H₁₉ClN₂O₂S

Molecular Weight: 322.85

Storage: Store at low temperature, Keep away from direct sunlight
 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	BW 723C86 is a selective 5-HT _{2B} receptor agonist with anxiolytic activity. It induces overeating and reduced grooming in rats and can be used in neurodegenerative disease research.
Targets(IC ₅₀)	5-HT Receptor
In vivo	Subcutaneous administration of 10 and 20 mg/kg BW 723C86 hydrochloride prolonged the duration of feeding behavior in ad libitum-fed rats over a 15-minute period in the observation cage. By systemic administration (subcutaneous injection of 1, 10, and 20 mg/kg, 30 minutes prior to testing), but not intracerebroventricular administration (1-30 µg), BW 723C86 hydrochloride similarly significantly reduced the frequency of grooming behavior in rats in the observation cage. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (247.79 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 mg/mL (15.49 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	3.0974 mL	15.4871 mL	30.9741 mL
5 mM	0.6195 mL	3.0974 mL	6.1948 mL
10 mM	0.3097 mL	1.5487 mL	3.0974 mL
50 mM	0.0619 mL	0.3097 mL	0.6195 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

- Kennett GA, et al. BW 723C86, a 5-HT_{2B} receptor agonist, causes hyperphagia and reduced grooming in rats. *Neuropharmacology*. 1997 Feb;36(2):233-9.
- Kennett GA, et al. Anxiolytic-like actions of BW 723C86 in the rat Vogel conflict test are 5-HT_{2B} receptor mediated. *Neuropharmacology*. 1998 Dec;37(12):1603-10.
- Matsumoto T, et al. Effect of Equol on Vasocontractions in Rat Carotid Arteries Treated with High Insulin. *Biol Pharm Bull*. 2019;42(6):1048-1053.

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