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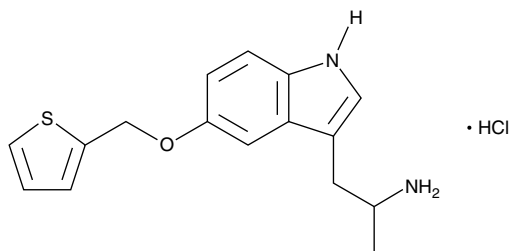
Product Information



BW 723C86

Item No. 70090

CAS Registry No.: 160521-72-2
Formal Name: α -methyl-5-(2-thienylmethoxy)-1H-indole-3-ethanamine, monohydrochloride
MF: C₁₆H₁₈N₂OS • HCl
FW: 322.9
Purity: \geq 98%
Stability: \geq 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{\max} : 224 nm



Laboratory Procedures

For long term storage, we suggest that BW 723C86 be stored as supplied at -20°C. It should be stable for at least two years.

BW 723C86 is supplied as a crystalline solid. A stock solution may be made by dissolving the BW 723C86 in an organic solvent purged with an inert gas. BW 723C86 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of BW 723C86 in ethanol is approximately 6 mg/ml, but in DMSO and DMF it is approximately 50 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of BW 723C86 can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of BW 723C86 in PBS (pH 7.2) is approximately 160 μ g/ml. We do not recommend storing the aqueous solution for more than one day.

The transduction of neurobehavioral effects by serotonin (5-hydroxy tryptamine; 5-HT) is mediated *via* at least 6 major 5-HT receptor subtypes. Non-selective 5-HT receptor agonists, such as mCPP, induce many behavioral responses in rats, including increased anxiety, hypophagia, and hypoactivity. BW 723C86 is in fact anxiolytic, and its only other prominent behavioral effect is hyperphagia.^{1,2} This effect is likely due to the 10-fold selectivity of BW 723C86 for the 5-HT_{2B} receptor.² Direct infusion of 1-3 μ g of BW 723C86 into the cerebral ventricles of rats evokes maximal behavioral responses; the response was attenuated at both higher and lower doses.²

References

1. Kennett, G.A., Bright, F., Trail, B., *et al.* Effects of the 5-HT_{2B} receptor agonist, BW 723C86, on three rat models of anxiety. *Br. J. Pharmacol.* **117**, 1443-1448 (1996).
2. Kennett, G.A., Ainsworth, K., Trail, B., *et al.* BW 723C86, a 5-HT_{2B} receptor agonist, causes hyperphagia and reduced grooming in rats. *Neuropharmacology* **36**, 233-239 (1997).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/70090

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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