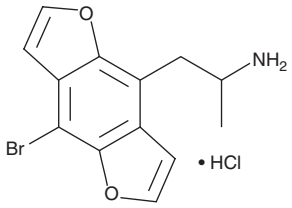
PRODUCT INFORMATION

Bromo-DragonFLY (hydrochloride)

Item No. 11561

CAS Registry No.:	219986-78-4
Formal Name:	8-bromo-α-methyl-benzo[1,2-b:4,5-b']difuran-4-ethanamine, monohydrochloride
MF:	$C_{13}H_{12}BrNO_2 \bullet HCl$
FW:	330.6
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 225, 283, 295 nm



Laboratory Procedures

For long term storage, we suggest that bromo-dragonFLY (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

Bromo-DragonFLY (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the bromo-dragonFLY (hydrochloride) in the solvent of choice. Bromo-DragonFLY (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of bromo-dragonFLY (hydrochloride) in these solvents is approximately 5 and 1 mg/ml, respectively.

Bromo-DragonFLY (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, bromo-dragonFLY (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Bromo-DragonFLY (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Bromo-DragonFLY is a difuran analog of the Schedule I hallucinogen 4-bromo-2,5-dimethoxyphenethylamine.[1] This designer drug strongly binds serotonin receptors (K_i = 0.04, 0.19, and 0.02 nM for 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C}, respectively).[2] It is more potent than LSD in drug discrimination studies in rats.[2] Related to its high potency, bromo-dragonFLY has been associated with fatalities as well as acute intoxications.[3] GC-MS, GC-IRD, and solid phase FTIR spectra have been published.[1] This product is intended for research and forensic purposes.

References

1. Reed, E.C. and Kiddon, G.S. The characterization of three fly compounds (2C-B-FLY, 3C-B-FLY, and Bromo-Dragon FLY). *DEA Microgram Journal* **5(1-4)**, 1-8 (2007).
2. Parker, M.A., Marona-Lewicka, D., Lucaites, V.L., *et al*. A novel (benzodifuranyl)aminoalkane with extremely potent activity at the 5-HT_{2A} receptor. *J. Med. Chem*. **41**, 5148-5149 (1998).
3. Corazza, O., Schifano, F., Farre, M., *et al*. Designer drugs on the internet: A phenomenon out-of-control? the emergence of hallucinogenic drug Bromo-Dragonfly. *Curr. Clin. Pharmacol*. **6**, 125-129 (2011).

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