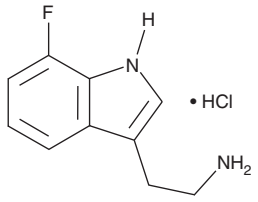
Product Information

7-fluoro Tryptamine (hydrochloride)

Item No. 17323

CAS Registry No.: 159730-09-3
Formal Name: 7-fluoro-1H-indole-3-ethanamine, monohydrochloride
MF: $C_{10}H_{11}FN_2 \cdot HCl$
FW: 214.7
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 216, 266 nm



Laboratory Procedures

For long term storage, we suggest that 7-fluoro tryptamine (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

7-fluoro Tryptamine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the 7-fluoro tryptamine (hydrochloride) in the solvent of choice. 7-fluoro Tryptamine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 7-fluoro tryptamine (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 10 mg/ml in DMSO and DMF.

7-fluoro Tryptamine (hydrochloride) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

7-fluoro Tryptamine is a tryptamine derivative that potentially agonizes 5-HT serotonin receptors. Although the biological effects of this compound have not been reported, certain hallucinogenic typtamines containing a fluorine substitution at the 5-, 6-, or 7-position have been shown to have 5-HT_{2C} receptor selectivity over both the $5HT_{2A}$ and 5-HT_{2B} subtypes.[1,2] This product is intended for research and forensic applications.

References

1. Kalir, A. and Szara, S. Synthesis and pharmacological activity of fluorinated tryptamine derivatives. *J. Med. Chem.* **6**, 716-719 (1963).
2. Blair, J.B., Kurrasch-Orbaugh, D., Marona-Lewicka, D., *et al.* Effect of ring fluorination on the pharmacology of hallucinogenic tryptamines. *J. Med. Chem.* **43(24)**, 4701-4710 (2000).

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