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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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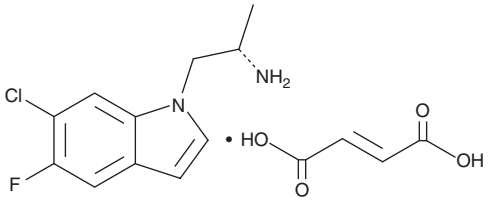
PRODUCT INFORMATION

Ro 60-0175

Item No. 29520

CAS Registry No.:	169675-09-6
Formal Name:	(αS)-6-chloro-5-fluoro-α-methyl-1H-indole-1-ethanamine, (2E)-2-butenedioate
MF:	$C_{11}H_{12}ClFN_2 \bullet C_4H_4O_4$
FW:	342.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 223, 280 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ro 60-0175 is supplied as a crystalline solid. A stock solution may be made by dissolving the Ro 60-0175 in the solvent of choice, which should be purged with an inert gas. Ro 60-0175 is soluble in the organic solvent DMSO.

Description

Ro 60-0175 is an agonist of the serotonin (5-HT) receptor subtype 5-HT_2 that stimulates increases in intracellular calcium levels in CHO-K1 cells expressing human 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C} receptors (EC_{50}s = 447, 0.9, and 32 nM, respectively).[1] It is selective for human 5-HT_{2A} and 5-HT_{2C} (K_is = 32 and 1 nM, respectively) over human 5-HT_{1A}, 5-HT_{1D}, 5-HT_6, and 5-HT_7, rat 5-HT_{1B} and 5-HT_3, and guinea pig 5-HT_4 receptors (K_is = ≥1,995 nM), as well as adenosine A_1 and A_2, histamine H_{1-3}, dopamine D_{1-5}, α_1-, α_2-, and β_1-adrenergic, M_{1-5} muscarinic, nicotinic, kainate, AMPA, and μ-, δ-, and κ-opioid receptors (IC_{50}s = >1,000 nM), but does bind to β_2-adrenergic receptors (IC_{50} = 251 nM).[2] *In vivo*, Ro 60-0175 increases plasma levels of corticosterone, oxytocin, and prolactin in rats (ED_{50}s = 2.43, 4.19, and 4.03 mg/kg, respectively), effects that are not inhibited by the 5-HT_{2C} antagonist SB-242084 (Item No. 10096) or the 5-HT_{2A} antagonist MDL 100,907 (volinanserin; Item No. 15936).[3]

References

1. Porter, R.H., Benwell, K.R., Lamb, H., *et al*. Functional characterization of agonists at recombinant human 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} receptors in CHO-K1 cells. *Br. J. Pharmacol.* **128(1),** 13-20 (1999).
2. Martin, J.R., Bös, M., Jenck, F., *et al*. 5-HT_{2C} receptor agonists: Pharmacological characteristics and therapeutic potential. *J. Pharmacol. Exp. Ther.* **286(2),** 913-924 (1998).
3. Damjanoska, K.J., Muma, N.A., Zhang, Y., *et al*. Neuroendocrine evidence that (S)-2-(chloro-5-fluoro-indol-*l*-yl)-1-methylethylamine fumarate (Ro 60-0175) is not a selective 5-hydroxytryptamine$_{2C}$ receptor agonist. *J. Pharmacol. Exp. Ther.* **304(3),** 1209-1216 (2003).

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