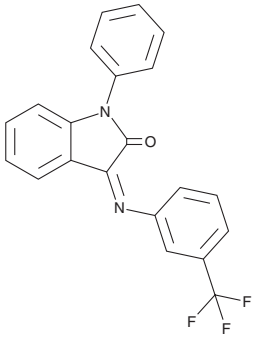
PRODUCT INFORMATION

HT-2157

Item No. 33848

CAS Registry No.:	303149-14-6
Formal Name:	1,3-dihydro-1-phenyl-3-[[3-(trifluoromethyl) phenyl]imino]-2H-indol-2-one
Synonym:	SNAP 37889
MF:	$C_{21}H_{13}F_3N_2O$
FW:	366.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 250 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

HT-2157 is supplied as a solid. A stock solution may be made by dissolving the HT-2157 in the solvent of choice, which should be purged with an inert gas. HT-2157 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of HT-2157 in ethanol is approximately 5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

HT-2157 is an antagonist of the galanin-3 receptor (GAL_3; K_i = 17 nM).[1] It is selective for GAL_3 over GAL_1 and GAL_2 (K_is = >10 µM for both). HT-2157 (10 µM) induces apoptosis in various cell types, including HL-60 leukemia and BV-2 murine microglial cells, as well as isolated human peripheral blood mononuclear cells (PBMCs).[2] It decreases operant alcohol, sucrose, and saccharin self-administration in rats when administered at a dose of 30 mg/kg.[3] HT-2157 (3 and 10 mg/kg) increases drinking in the Vogel punished drinking task and reduces immobility time in the forced swim test in rats, indicating anxiolytic- and antidepressant-like activities, respectively.[4]

References

1. Konkel, M.J., Lagu, B., Boteju, L.W., *et al.* 3-arylimino-2-indolones are potent and selective galanin GAL_3 receptor antagonists. *J. Med. Chem.* **49(13)**, 3757-3758 (2006).
2. Koller, A., Rid, R., Beyreis, M., *et al. In vitro* toxicity of the galanin receptor 3 antagonist SNAP 37889. *Neuropeptides* **56**, 83-88 (2016).
3. Ash, B.L., Zanatta, S.D., Williams, S.J., *et al.* The galanin-3 receptor antagonist, SNAP 37889, reduces operant responding for ethanol in alcohol-preferring rats. *Regul. Pept.* **166(1-3)**, 59-67 (2011).
4. Swanson, C.J., Blackburn, T.P., Zhang, X., *et al.* Anxiolytic- and antidepressant-like profiles of the galanin-3 receptor (Gal_3) antagonists SNAP 37889 and SNAP 398299. *Proc. Nat. Acad. Sci. USA* **102(48)**, 17489-17494 (2005).

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