Product Data Sheet

Product Name: (+)-Norfenfluramine
Cat. No.: GC68210

Chemical Properties

Cas. No.	19036-73-8		
Formula	$C_{10}H_{12}F_3N$	M.Wt	203.2
Solubility	DMSO : 100 mg/mL (492.13 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	(+)-Norfenfluramine		

Background

(+)-Norfenfluramine a major hepatic metabolite of (+)-fenfluramine, is a selective **5-HT_{2B}** receptor agonist (**K_i**: 11.2 nM). (+)-Norfenfluramine potently stimulates the hydrolysis of inositol phosphates and increases intracellular Ca^{2+}. (+)-Norfenfluramine can be used for the research of primary pulmonary hypertension and valvular heart disease[1].

(+)-Norfenfluramine (1 nM to 100 μM) contracts arteries with a dramatic decrease in threshold (aorta and mesenteric resistance artery) in rats[1].
(+)-Norfenfluramine (1 and 10 μM, 3 min) induces contraction in aorta from tissues of normotensive and hypertensive rats[1].
(+)-Norfenfluramine (0-10 μM, 3 min) induces 5-HT release from rat hippocampal synaptosomes by Ca^{2+}-dependent way [2].

(+)-Norfenfluramine (1-300 μg/kg, i.v.) induces pressor response in conscious SHAM and DOCA-salt rats[1].
(+)-Norfenfluramine (2.5 and 5 mg/kg, i.p.) decreases of 5-HT and 5-HIAA levels in

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telencephalon and brainstem of rats[3].

Animal Model:	Conscious SHAM and DOCA-salt rats[1].
Dosage:	1-300 μg/kg
Administration:	Intravenous injection (i.v.), given in a cumulative fashion at 6-min intervals.
Result:	Induced pressor response in conscious SHAM and DOCA-salt rats. (change in mean arterial blood pressure at 300 μg/kg, mm Hg, SHAM vehicle=36, SHAM ketanserin=7, DOCA=51, DOCA ketanserin=19).

[1]. Wei Ni, et al. The 5-hydroxytryptamine2A receptor is involved in (+)-norfenfluramine-induced arterial contraction and blood pressure increase in deoxycorticosterone acetate-salt hypertension. J Pharmacol Exp Ther. 2007 May;321(2):485-91.
[2]. M Gobbi, et al. In vitro studies on the mechanism by which (+)-norfenfluramine induces serotonin and dopamine release from the vesicular storage pool. Naunyn Schmiedebergs Arch Pharmacol. 1998 Sep;358(3):323-7.
[3]. R Invernizzi, et al. Is receptor activation involved in the mechanism by which (+)-fenfluramine and (+)-norfenfluramine deplete 5-hydroxytryptamine in the rat brain• Br J Pharmacol. 1982 Mar;75(3):525-30.