



Catalog Number:	MC11059	Product Type:	Small Molecule
Bio-Activity:	Serotonin uptake inhibitor	CAS #:	59729-32-7
Research Categories:	Neuroscience, heart disease, mood disorders	Chemical Name:	1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile hydrobromide
Solubility:	Soluble in Water (up to 4 mg/ml), DMSO (up to 25 mg/ml) or Ethanol (up to 20 mg/ml)	Molecular Formula:	C20H21FN2O·HBr
Purity:	> 98%	Molecular Weight:	405.31
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Potent and selective serotonin uptake inhibitor (SSRI) $K_i=5.4$ nM. Has no effect on norepinephrine or dopamine uptake [1]. Displays cardioprotective effects in part by reducing expression of cytokine-induced endothelial adhesion molecules, ICAM-1 and VCAM-1 [2]. Clinically useful antidepressant [3]. Attenuates ethanol intake [4].

References:

- 1) Mateo et al. (2000), Inhibition of 5-hydroxytryptamine reuptake by the antidepressant citalopram in the locus coeruleus modulates the rat brain noradrenergic transmission in vivo; *Neuropharmacology* 39 2036
- 2) Lekakis et al. (2010), Selective serotonin re-uptake inhibitors decrease the cytokine-induced endothelial adhesion molecule expression, the endothelial adhesiveness to monocytes and the circulating levels of vascular adhesion molecules; *Int.J.Cardiol.* 139 150
- 3) Cipriani et al. (2009), Comparative efficacy and acceptability of 12 new-generation antidepressants: a multiple-treatments meta-analysis; *Lancet* 373 746
- 4) Naranjo et al. (1987), The serotonin uptake inhibitor citalopram attenuates ethanol intake; *Clin.Pharmacol.Ther.* 41 266

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