Product Data Sheet

Product Name: Flibanserin-d4-1
Cat. No.: GC68364

Chemical Properties

Cas. No.	2122830-91-3		
Formula	$C_{20}H_{17}D_4F_3N_4O$	M.Wt	394.43
Solubility		Storage	Store at -20°C
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	Flibanserin-d4-1		

Background

Flibanserin-d4-1 is deuterium labeled Flibanserin. Flibanserin (BIMT-17) is a full agonist of the serotonin 5-HT1A receptor (Ki=1 nM) and an antagonist of 5-HT2A (49 nM). Flibanserin binds to dopamine D4 receptors (4-24 nM), and has negligible affinity for a variety of other neurotransmitter receptors and ion channels. Flibanserin is efficacious in treating hypoactive sexual desire disorder (HSDD)[1][2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.
[2]. Gelman F, et al. Flibanserin for hypoactive sexual desire disorder: place in therapy. Ther Adv Chronic Dis. 2017 Jan;8(1):16-25.
[3]. Invernizzi RW, et al. Flibanserin, a potential antidepressant drug, lowers 5-HT and raises dopamine and noradrenaline in the rat prefrontal cortex dialysate: role of 5-HT(1A) receptors. Br J Pharmacol. 2003 Aug;139(7):1281-8.

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