



LKT Laboratories, Inc.

DU-14

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Product Information

Product ID D8014

CAS No. 186303-55-9

Chemical Name (p-O-sulfamoyl)-N-tetradecanoyl tyramine

Synonym

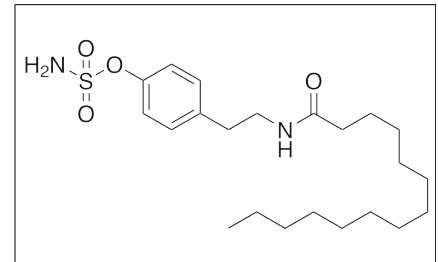
Formula $C_{22}H_{38}N_2O_4S$

Formula Wt. 426.6

Melting Point

Purity $\geq 98\%$

Solubility DMSO (25mg/ml)



Bulk quantities available upon request

Product ID	Size
D8014	5 mg
D8014	25 mg

Store Temp 4° C

Ship Temp Ambient

Description DU-14 inhibits steroid sulfatase, displaying neuromodulatory, anti-amnestic, and cognition enhancing activities. DU-14 inhibits the amnestic effects of scopolamine, likely enhancing cognitive function through increasing levels of excitatory neurosteroids. In rats, DU-14 enhances memory acquisition and learning associated with contextual fear and spatial memory, but may impair memory acquisition in animals with hippocampal lesions.

References Babalola PA, Fitz NF, Gibbs RB, et al. The effect of the steroid sulfatase inhibitor (p-O-sulfamoyl)-tetradecanoyl tyramine (DU-14) on learning and memory in rats with selective lesion of septal-hippocampal cholinergic tract. *Neurobiol Learn Mem.* 2012 Oct;98(3):303-10. PMID: 23022361.

Johnson DA, Wu T, Li P, et al. The effect of steroid sulfatase inhibition on learning and spatial memory. *Brain Res.* 2000 May 26;865(2):286-90. PMID: 10821934.

Johnson DA, Rhodes ME, Boni RL, et al. Chronic steroid sulfatase inhibition by (p-O-sulfamoyl)-N-tetradecanoyl tyramine increases dehydroepiandrosterone sulfate in whole brain. *Life Sci.* 1997;61(24):PL 355-9. PMID: 9399636.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.