



LKT Laboratories, Inc.

Verubecestat

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## Product Information

**Product ID** V182705

**CAS No.** 1286770-55-5

**Chemical Name** N-(3-(3-amino-5,6-dihydro-2,5-dimethyl-1,1-dioxido-2H-1,2,4-thiadiazin-5-yl)-4-fluorophenyl)-5-fluoro-2-pyridinecarboxamide

**Synonym** MK-8931, MK8931

**Formula** C<sub>17</sub>H<sub>17</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>S

**Formula Wt.** 409.41

**Melting Point**

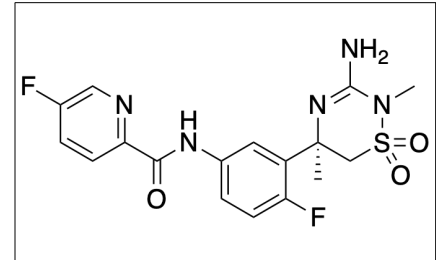
**Purity** ≥98%

**Solubility** DMSO:81 mg/mL (197.84 mM); Ethanol:41 mg/mL (100.14 mM); Water: Insoluble

**Store Temp** -20° C

**Ship Temp**

**Description** Verubecestat is a potent and selective beta-secretase inhibitor and BACE1 protein inhibitor. Verubecestat was found to reduce amyloid in plasma, cerebral spinal fluid, and brains in several animal models. However, development of verubecestat as a treatment was halted when it was shown to have no impact on slowing the progression of Alzheimer's disease.



**Bulk quantities available upon request**

Product ID	Size
V182705	5 mg
V182705	25 mg
V182705	100 mg

**References** Villarreal S, Zhao F, Hyde LA, et al. Chronic verubecestat treatment suppresses amyloid accumulation in advanced aged Tg2576-AbPPswe mice without inducing microhemorrhage. *J Alzheimers Dis.* 2017;59(4):1393-1413. PMID: 28800329.

Kennedy ME, Stamford AW, Chen X, et al. The BACE1 inhibitor verubecestat (MK-8931) reduces CNS beta-amyloid in animal models and in Alzheimer's disease patients. *Sci Transl Med.* 2016 Nov 2;8(363):363ra150. PMID: 27807285.

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