



## 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**

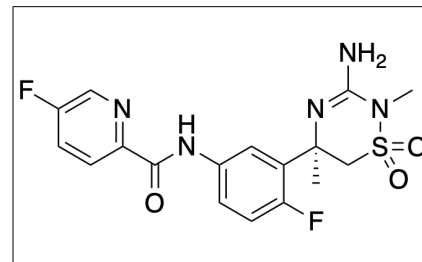
**Purity** ≥98%

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

**Store Temp** -20°C

**Ship Temp** Ambient

**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.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
V182705	5 mg	\$95.00
V182705	25 mg	\$325.00
V182705	100 mg	\$950.00

**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.

Oblak A, Cope Z, Quinney S, et al. Prophylactic evaluation of verubecestat on disease-and symptom-modifying effects in 5XFAD mice. Alzheimers Dement (N Y). 2022 Jul 14;8(1):e12317. PMID: 35846156.

Watamura N, Sato K, Shiihashi G, et al. An isogenic panel of App knock-in mouse models: profiling beta-secretase inhibition and endosomal abnormalities. Sci Adv. 2022 Jun 10;8(23):eabm6155. PMID: 35675411.

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