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**Product Data Sheet**

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Product Name: Verubecestat (MK-8931) Trifluoroacetate

Cat. No.: GC26035

**Chemical Properties**

Cas. No. 2095432-65-6

Formula C<sub>19</sub>H<sub>18</sub>F<sub>5</sub>N<sub>5</sub>O<sub>5</sub>S

M.Wt 523.43

Solubility DMSO: 81 mg/mL (154.75 mM); Water: Insoluble; Ethanol: 5 mg/mL (9.55 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 **Background**

Verubecestat (MK-8931) Trifluoroacetate is a potent and selective beta-secretase inhibitor and BACE1 protein inhibitor or Beta-site APP-cleaving enzyme 1 inhibitor.

Verubecestat (MK-8931) effectively reduces A $\beta$ 40 in cells with a K<sub>i</sub> of 7.8 nM and an IC<sub>50</sub> of 13 nM[2].

Verubecestat (MK-8931) dramatically lowers CSF and cortex A $\beta$ 40 in both rats and cynomolgus monkeys following a single oral dose. Due to the 20 h half-life of MK-8931 it is ideal for once-a-day dosing[2].

[1] Evin G, et al. *BioDrugs*. 2016, 30(3):173-94. [2] Yan R, et al. *Transl Neurodegener*. 2016, 5:13.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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