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**Product Data Sheet**

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Product Name: Vornorexant

Cat. No.: GC64826

**Chemical Properties**

Cas. No. 1517965-94-4

Formula C<sub>23</sub>H<sub>22</sub>FN<sub>7</sub>O<sub>2</sub>

M.Wt 447.46

Solubility DMSO :  $\geq$  100 mg/mL (223.48 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**

Vornorexant (ORN-0829; TS-142) is a potent dual OX1R and OX2R antagonist with IC<sub>50</sub> values of 1.05 nM and 1.27 nM, respectively. Vornorexant exhibits potent sleep-promoting effects in vivo and can be used for insomnia treatment research[1].

Vornorexant (oral administration; 1-10 mg/kg) exhibits potent sleep-promoting effects at a po. dose of 1 mg/kg in a rat polysomnogram study. It results in a dose-dependent increase in the percentage of total sleep[1].

Vornorexant exhibits optimal PK properties with a rapid T<sub>max</sub> and short half-lives in rats and dogs. The T<sub>1/2</sub> is 0.238 hours and 1.16 hours, respectively in rat and dog[1].

[1]. Aya Futamura, et al. Discovery of ORN0829, a potent dual orexin 1/2 receptor antagonist for the treatment of insomnia. Bioorg Med Chem. 2020 Jul 1;28(13):115489.

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

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