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**Product Data Sheet**

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Product Name: (Rac)-BRD0705

Cat. No.: GC39058

**Chemical Properties**

Cas. No. 1597440-03-3

SMILES O=C1C2=C(N=C3C(C2(CC)C4=CC=CC=C4)=CNN3)CC(C)(C)C1Formula C20H23N3O M.Wt 321.42

Solubility DMSO: 250 mg/mL (777.80 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**

(Rac)-BRD0705 is a less active racemate of BRD0705. BRD0705 is a potent, paralog selective and orally active GSK3 $\alpha$  inhibitor with an IC<sub>50</sub> of 66 nM and a K<sub>d</sub> of 4.8  $\mu$ M. BRD0705 displays increased selectivity for GSK3 $\alpha$  (8-fold) versus GSK3 $\beta$  (IC<sub>50</sub> of 515 nM). BRD0705 can be used to treat acute myeloid leukemia (AML)[1][2].

[1]. Wagner FF, et al. Exploiting an Asp-Glu "switch" in glycogen synthase kinase 3 to design paralog-selective inhibitors for use in acute myeloid leukemia. *Sci Transl Med.* 2018 Mar 7;10(431). pii: eaam8460. [2]. Edward Scolnick, et al. Uses of paralog-selective inhibitors of gsk3 kinases. US20160375006A1.

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

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