
Product Data Sheet

Product Name: BRD5648

Cat. No.: GC39263

Chemical Properties

Cas. No. 2056261-42-6

SMILES O=C1C2=C(N=C3C([C@@]2(CC)C4=CC=CC=C4)=CNN3)CC(C)(C)C1

Formula C20H23N3O M.Wt 321.42

Solubility DMSO: 300 mg/mL (933.36 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

BRD5648 ((R)-BRD0705) is an inactive (R)-enantiomer of BRD0705. BRD0705 is a potent, paralog selective and orally active GSK3 α inhibitor with an IC₅₀ of 66 nM and a K_d of 4.8 μ M. BRD0705 displays increased selectivity for GSK3 α (8-fold) versus GSK3 β (IC₅₀ of 515 nM). BRD0705 can be used for 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]. 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.

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

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