

Product Data Sheet

Product Name: BRD3731

Cat. No.: GC62875

Chemical Properties

Cas. No. 2056262-07-6

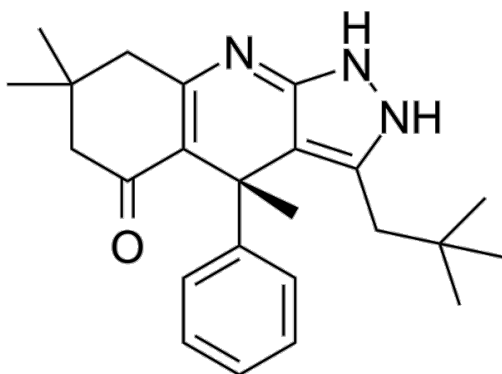
Formula $C_{24}H_{31}N_3O$ M.Wt 377.52

Solubility DMSO : 50 mg/mL (132.44 mM; Need ultrasonic) 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

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

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BRD3731 is a selective GSK3 β inhibitor, with IC₅₀s of 15 nM and 215 nM for GSK3 β and GSK3 α , respectively. BRD3731 is potential for the research of post-traumatic stress disorder (PTSD), psychiatric disorder, diabetes, and neurodegenerative disorders[1].

BRD3731 is a GSK3 β - selective inhibitor extracted from patent US20160375006A1, compound example 272[1]. BRD3731 (1-10 μ M; 24 hours) inhibits the phosphorylation of CRMP2 in SH-SY5Y cells[1]. BRD3731 (20 μ M; 24 hours) decreases β -catenin S33/37/T41 phosphorylation and induces β -catenin S675 phosphorylation in HL-60 cells[2]. BRD3731 (10-20 μ M; 7-10 days) impairs colony formation in TF-1 and increases colony forming ability in the MV4-11 cell line[2]

[1]. Edward Scolnick, et al. Uses of paralog-selective inhibitors of gsk3 kinases. US20160375006A1.

[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):eaam8460.

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