
Product Data Sheet

Product Name: BR102375

Cat. No.: GC35547

Chemical Properties

Cas. No. 2366255-59-4

SMILES CCCC(N1CC2=CC=C(C3=C(C4=NOC(N4)=O)C=CC=C3)C=C2)=NC(C)=C(CC5=NC(C(C)(C)C)=NO5)C1=OFormula C₃₁H₃₄N₆O₄

M.Wt

554.64

Solubility Soluble in DMSO

Storage

Store at -20°C

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

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure **Background**

BR102375 is a non-TZD peroxisome proliferator-activated receptor γ (PPAR γ) full agonist for the treatment of type 2 diabetes, reveals EC₅₀ value of 0.28 μ M and Amax ratio of 98%[1].

BR102375 (Compound 18) (10 μ M) increases gene expression levels relevant to PPAR γ activation and enhances glucose uptake under insulin stimulation[1]. BR102375 (Compound 18) (10 nM, 100 nM, 1 μ M; 6 days, 14 days) shows a concentration-dependent, insulin-sensitive effects on adipogenesis[1]. RT-PCR[1] Cell Line: 3T3-L1 mouse preadipocyte cells

BR102375 (Compound 18) has decent efficacy on mouse diabetes model[1]. BR102375 reveals significant suppressive effect on random blood glucose increase(75 mpk, p.o., bid), shows decent effect on insulin resistance on Oral glucose tolerance test (OGTT) and discloses similar findings in body weight gain almost identical to Pioglitazone[1].

[1]. Chung W, et al. Discovery of BR102375, a new class of non-TZD PPAR γ full agonist for the treatment of type 2 diabetes. Bioorg Med Chem Lett. 2019 Jun 19. pii: S0960-894X(19)30407-X.

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

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