

Product Data Sheet

Product Name: AMPK activator 4

Cat. No.: GC62841

Chemical Properties

Cas. No. 2493239-46-4

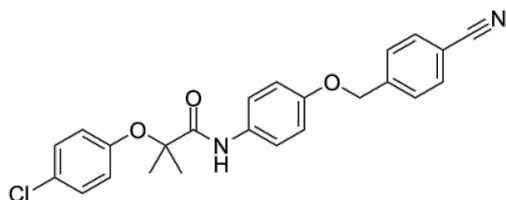
Formula $C_{24}H_{21}ClN_2O_3$ M.Wt 420.89

Solubility DMSO : 250 mg/mL (593.98 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

AMPK activator 4 is a potent AMPK activator without inhibition of mitochondrial complex I. AMPK activator 4 selectively activates AMPK in the muscle tissues. AMPK activator 4 dose-dependently improves glucose tolerance in normal mice, and significantly lowers fasting blood glucose level and

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

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ameliorates insulin resistance in db/db diabetic mice. Anti-hyperglycemic effect[1].

AMPK activator 4 (compound B10) (0-20 μ M; 12-24 hours) induces phosphorylation of AMPK and its downstream protein ACC[1]. AMPK activator 4-mediated AMPK phosphorylation requires LKB1[1]. AMPK activator 4 slightly decreases the viability of HepG2 cells after 72 hours of treatment at 10-20 μ M[1].

AMPK activator 4 (100 mg/kg; Intragastrical administration; daily for 9 weeks) shows anti-hyperglycemic effect[1].

[1]. Sun G, You Y, Li H, et al. Discovery of AdipoRon analogues as novel AMPK activators without inhibiting mitochondrial complex I. Eur J Med Chem. 2020;200:112466.

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