

Product Data Sheet

Product Name: FOXO1-IN-3

Cat. No.: GC71254

Chemical Properties

Cas. No. 2451093-95-9

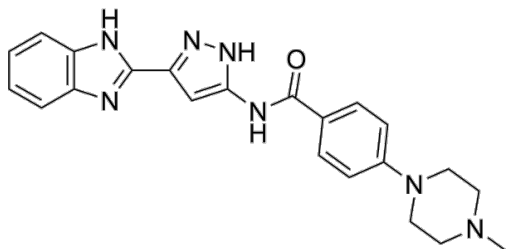
Formula C₂₂H₂₃N₇O M.Wt 401.46

Solubility DMSO : 100 mg/mL (249.09 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

FOXO1-IN-3 is a highly-selective and orally active FOXO1 inhibitor. FOXO1-IN-3 reduces hepatic glucose production in mice. FOXO1-IN-3 improves insulin sensitivity and glucose control in db/db mice without causing weight gain.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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FOXO1-IN-3 (Compound 10) (10 μ M, 6 h) suppresses cAMP/Dexamethasone induced G6pc and Pck1 mRNA expression in primary hepatocytes isolated from normal mice^[1].

FOXO1-IN-3 (Compound 10) (16 mg/kg, p.o., twice daily, for 10 days) reduces blood glucose in db/db mice^[1].

FOXO1-IN-3 (16 mg/kg, p.o., twice daily, for 7 days) and FGF21 (0.45 mg/kg) has synergistic glucose-lowering effects in Streptozotocin induced β -cell-ablated diabetic mice^[1].

FOXO1-IN-3 (1 mg/kg for i.v., 10 mg/kg for p.o.) shows significant plasma exposure and oral bioavailability despite relatively short half-life in mice^[1].

PK properties of FOXO1-IN-3 (compound 10)

References:

[1]. Lee YK, et al. FOXO1 inhibition synergizes with FGF21 to normalize glucose control in diabetic mice. Mol Metab. 2021 Jul;49:101187.

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