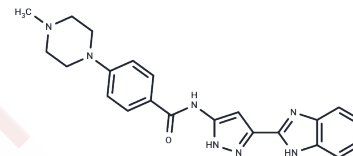


## FOXO1-IN-3

## Chemical Properties

CAS No. :	2451093-95-9
Formula:	C <sub>22</sub> H <sub>23</sub> N <sub>7</sub> O
Molecular Weight:	401.46
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	FOXO1-IN-3 is a highly-selective, orally active inhibitor of FOXO1 that reduces hepatic glucose production and improves insulin sensitivity and glucose regulation in db/db mice, without causing weight gain [1].
Targets(IC50)	Others,FOXO
In vitro	FOXO1-IN-3 (Compound 10) at 10 μM inhibits cAMP/Dexamethasone-induced mRNA expression of G6pc and Pck1 in primary hepatocytes from normal mice after 6 hours of treatment [1].
In vivo	FOXO1-IN-3 (Compound 10) (16 mg/kg, oral administration, twice daily for 10 days) effectively reduced blood glucose levels in db/db mice [1]. Additionally, it showed synergistic glucose-lowering effects in Streptozotocin-induced diabetic mice with depleted β-cells when combined with FGF21 (0.45 mg/kg) [1]. FOXO1-IN-3 exhibited significant plasma exposure and oral bioavailability in mice at 1 mg/kg intravenously and 10 mg/kg orally, despite a short half-life [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4909 mL	12.4545 mL	24.9091 mL
5 mM	0.4982 mL	2.4909 mL	4.9818 mL
10 mM	0.2491 mL	1.2455 mL	2.4909 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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