AS1842856

Foxo1 inhibitor

AS1842856 is a cell-permeable compound that specifically and potently inhibits the transcriptional activity of the Forkhead box O1 (Foxo1) protein (IC_{50} value of 33 nM). This inhibition is mediated by the direct binding of AS1842856 to the active form of Foxo1, but not to its Ser256-phosphorylated (inactive) form.

AS1842856 has been shown to preferentially inhibit Foxo1 over other related proteins such as Foxo3a and Foxo4. This selectivity makes it applicable for investigating the role of Foxo1 in various cellular processes, like metabolism, cell cycle regulation, and apoptosis. Moreover, AS1842856 can inhibit gluconeogenesis in liver cells and reduce glucose production in both in vitro and in vivo models, extending its use in the research of metabolic disorders, such as diabetes.

Ordering Information

Order Online »

ENZ-CHM325-0050	50mg
ENZ-CHM325-0100	100mg

Manuals, SDS & CofA

View Online »

- GMP format available

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.Powder: Stable at -20°C for 3 years or +4°C for 2 years; In solvent: Stable at -80°C for 6 months or -20°C for 1 month.
Handling	Before opening the vial, please centrifuge to gather the compound at the bottom of the vial.
Short Term Storage	+4°C
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	FOXO1 Inhibitor
Appearance	White to light yellow solid.
CAS	836620-48-5
Couple Target	FOX
Couple Type	Inhibitor
Formula	$C_{18}H_{22}FN_3O_3$
MW	347.38
Purity	≥99% (HPLC)
Solubility	Soluble in DMSO (5 mg/ml).

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