

Product Data Sheet

Product Name: SIRT1-IN-1

Cat. No.: GC61278

Chemical Properties

Cas. No. 352554-02-0

SMILES O=C(C1C(NC2=C3C=C(C)C=C2)=C3CCC1)N

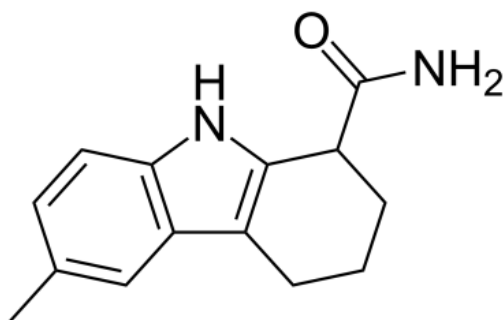
Formula $C_{14}H_{16}N_2O$ M.Wt 228.29

Solubility DMSO: 100 mg/mL (438.04 mM) 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

SIRT1-IN-1 is a selective SIRT1 inhibitor with an IC₅₀ of 0.205 μM. SIRT1-IN-1 inhibits SIRT2 with an IC₅₀ of 11.5 μM[1]. SIRT1-IN-1, an indole, is a cytomegalovirus (CMV) inhibitor and has antiviral activity[2].

SIRT1-IN-1 (compound 2) has little effect on SIRT3 (IC₅₀>100 μM) and HDAC (IC₅₀>100 μM)[1].

[1]. Andrew D Napper, et al. Discovery of Indoles as Potent and Selective Inhibitors of the

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

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Deacetylase SIRT1. J Med Chem. 2005 Dec 15;48(25):8045-54. [2]. Thomas Shenk, et al. Sirtuin Modulators as Inhibitors of Cytomegalovirus. US20160296523A1.

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