

Product Data Sheet

Product Name: SIRT-IN-2

Cat. No.: GC30693

Chemical Properties

Cas. No. 1431411-66-3

SMILES NC(C1=CC2=NC=NC(N3CCC(CCNS(C)(=O)=O)CC3)=C2S1)=O

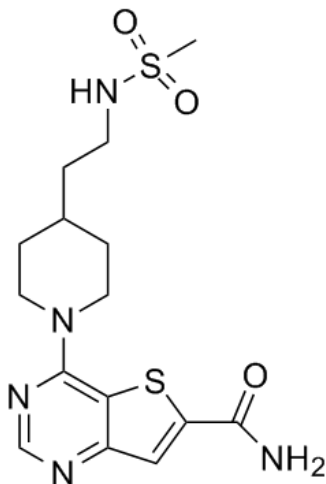
Formula $C_{15}H_{21}N_5O_3S_2$ M.Wt 383.49

Solubility DMSO : 62.5 mg/mL (162.98 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

SIRT-IN-2 is a potent inhibitor of SIRT1/2/3, with IC₅₀s of 4, 4, 7 μM, respectively.

SIRT-IN-2 (compound 31) is one of the most potent truncated pan SIRT1/ 2/3 inhibitor, the IC₅₀ values are 4, 4, 7 μM, respectively. SIRT-IN-2 (SIRT1/2/3 pan inhibitor) binds identically in the catalytic active site (RMS=0.29 ?), occupying the nicotinamide C-pocket and acetyl lysine substrate channel[1].

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

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[1]. Disch JS, et al. Discovery of thieno[3,2-d]pyrimidine-6-carboxamides as potent inhibitors of SIRT1, SIRT2, and SIRT3. J Med Chem. 2013 May 9;56(9):3666-79.

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