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**Product Data Sheet**

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Product Name: SIRT-IN-1

Cat. No.: GC30733

**Chemical Properties**

Cas. No. 1431411-60-7

SMILES NC(C1=CC2=NC=NC(N3CCC(CCNC(C(C)(C)C)=O)CC3)=C2S1)=OFormula C<sub>19</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>S

M.Wt 389.52

Solubility DMSO : 19.23 mg/mL (49.37 mM; ultrasonic and warming and heat to 60°C) 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-1 is a potent inhibitor of SIRT1/2/3, with IC<sub>50</sub>s of 15, 10, 33 μM, respectively.

SIRT-IN-1 (compound 28) is one of the most potent truncated pan SIRT1/ 2/3 inhibitor, the IC<sub>50</sub> values are 0.015, 0.010, 0.033 μM, respectively. SIRT-IN-1 (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].

[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.

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

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