
Product Data Sheet

Product Name: SGC-iMLLT

Cat. No.: GC34778

Chemical Properties

Cas. No. 2255338-25-9

SMILES CN1N=CC2=CC(C(NC3=CC=C(NC(CN4[C@@H](C)CCC4)=N5)C5=C3)=O)=CC=C21Formula C₂₂H₂₄N₆O

M.Wt 388.47

Solubility DMSO : 83.33 mg/mL (214.51 mM); Water : < 0.1 mg/mL (insoluble)

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**

SGC-iMLLT is an inhibitor of the YEATS domain-containing proteins MLLT1 and MLLT3.¹ It binds to the MLLT1 YEATS1 and MLLT3 YEATS3 domains (K_D s = 129 and 77 nM, respectively).¹ It is selective for YEATS1 and -3 over YEATS2 and -4 (IC_{50} s = >10 μ M), as well as a panel of 48 bromodomains at 50 μ M. SGC-iMLLT inhibits the interaction of histone H3.3 with MLLT3 (IC_{50} = 400 nM in a reporter assay) and decreases expression of the tumorigenic genes *MYC* and *DDN* in MV-4-11 leukemia cells when used at a concentration of 1 μ M.

1. Moustakim, M., Christott, T., Monteiro, O.P., et al. Discovery of an MLLT1/3 YEATS domain chemical probe *Angew. Chem. Int. Ed. Engl.* 57(50)16302-16307(2018)

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

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