
Product Data Sheet

Product Name: RU-SKI 43

Cat. No.: GC37573

Chemical Properties

Cas. No. 1043797-53-0

SMILES O=C(CNCC(C)CC)N1CCC2=C(C=CS2)C1COC3=CC=CC(C)=C3Formula $C_{22}H_{30}N_2O_2S$ M.Wt 386.55

Solubility Soluble in DMSO 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**

Hedgehog acyltransferase (Hhat) is an N-palmitoyltransferase that acylates Sonic hedgehog (Shh), which is critical for signaling through Shh. RU-SKI 43 is an inhibitor of Hhat ($IC_{50} = 0.85 \mu M$).¹ It blocks palmitoylation of Shh without affecting palmitoylation of H-Ras or Fyn, myristoylation of c-Src, or acylation of Wnt3a.¹ RU-SKI 43 is cell-permeable and inhibits both autocrine and paracrine Shh-induced activation of Gli-mediated transcription.¹ In pancreatic cancer cells, RU-SKI 43 reduces both Gli1 activation and proliferation.²

1. Petrova, E., Rios-Esteves, J., Ourfelli, O., et al. Inhibitors of Hedgehog acyltransferase block Sonic Hedgehog signaling. *Nat. Chem. Biol.* 9(4):247-249 (2013)
 2. Petrova, E., Matevossian, A., and Resh, M.D. Hedgehog acyltransferase as a target in pancreatic ductal adenocarcinoma. *Oncogene* 34:263-268 (2015)

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

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