
Product Data Sheet

Product Name: MBM-17
Cat. No.: GC36552

Chemical Properties

Cas. No. 2083621-90-1

SMILES NC(C(C=C1)=C(OCC2=CC=CC=C2)C=C1C3=CN=C4N3C=CC(C5=CN(CCN(C)C)N=C5)=C4)=O

Formula $C_{28}H_{28}N_6O_2$ M.Wt 480.56

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic tips bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue Condition ice upon request.

Structure

Background

MBM-17 (compound 42c) is a potent NIMA-related kinase 2 (Nek2) inhibitor with an IC₅₀ of 3 nM. It effectively inhibits the proliferation of cancer cells by inducing cell cycle arrest and apoptosis. MBM-55 shows antitumor activities, and no obvious toxicity to mice[1]. IC₅₀: 3 nM (Nek2), 5800 nM (Aurora A)[1]

MBM-17 inhibits MGC-803, HCT-116, Bel-7402 cells proliferation with IC₅₀s of 0.48, 1.06, 4.53 μM, respectively[1].

[1]. Xi JB, et al. Structure-based design and synthesis of imidazo[1,2-a]pyridine derivatives as novel and potent Nek2 inhibitors with in vitro and in vivo antitumor activities. Eur J Med Chem. 2017 Jan 27;126:1083-1106.

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

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