

Product Data Sheet

Product Name: Caylin-1
Cat. No.: GC43207

Chemical Properties

Cas. No. 1207480-88-3

SMILES COc1ccc(c(OC(C)C)c1)C1=N[C@@H](c2ccc(Cl)c(Cl)c2)[C@@H](c2ccc(Cl)c(Cl)c2)N1C(=O)N1CCNC(=O)C1

Formula C₃₀H₂₈Cl₄N₄O₄

M.Wt 650.4

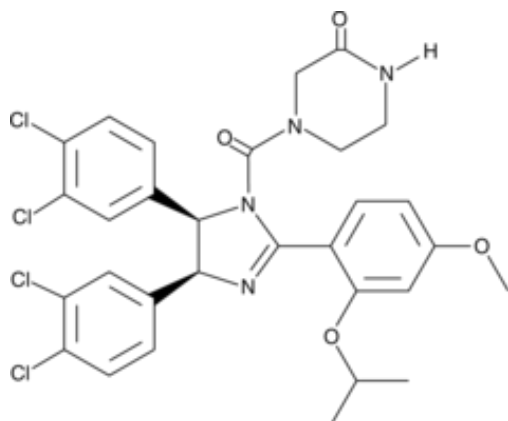
Solubility Soluble in DMSO

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

Nutlin-3 is an activator of p53 that functions by inhibiting the interaction of p53 with MDM2, a negative regulator of p53 activity. Caylin-1 is a nutlin-3 analog which contains chlorine substituents at the 3

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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and 4 positions on two of the phenyl rings rather than a single 4-chloro as seen in nutlin-3. At high concentrations, caylin-1 inhibits the growth of HCT116 cells with an IC₅₀ value of approximately 7 μ M, making it about 7-fold less potent than nutlin-3 in the same assay. Interestingly, at concentrations at or below 1 μ M, caylin-1 promotes the growth of HCT116 cells approximately 20% compared to untreated cells. The mechanism of the growth promoting properties of caylin-1 have not yet been elucidated.

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