

Product Name : PKM2 inhibitor

Synonyms : PKM2 inhibitor; MDK4882

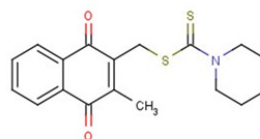
Cat No. : M19274

CAS Number : 94164-88-2

Molecular Formula : C₁₈H₁₉NO₂S₂

Formula Weight : 345.48

Chemical Name : (3-methyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl)methyl piperidine-1-carbodithioate



Description : MDK4882, also known as PKM2 inhibitor or compound 3k, is a PKM2 inhibitor. MDK4882 was first described in Eur J Med Chem. 2017;138:343-352. Currently there is no formal name. We temporarily name it MDK4882 for the convenience of communication, in which the last 4 digit of CAS# is used. MDK4882 displayed more potent PKM2 inhibitory activity than the reported optimal PKM2 inhibitor shikonin. MDK4882 also showed nanomolar antiproliferative activity toward a series of cancer cell lines with high expression of PKM2 including HCT116, Hela and H1299 with IC₅₀ values ranging from 0.18 to 1.56 μM. MDK4882 exhibited more cytotoxicity on cancer cells than normal cells.

Pathway : Others

Target : Other Targets

Receptor : PKM1; PKM2

Solubility : DMSO : 5.56 mg/mL 16.09 mM; H₂O : < 0.1 mg/mL

SMILES : CC1=C(C(=O)c2ccccc2C1=O)CSC(=S)N1CCCCC1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ning X, et al. Eur J Med Chem. 2017 Sep 29;138:343-352.