

Product Data Sheet

Product Name: MCI-INI-3

Cat. No.: GC91980

Chemical Properties

Cas. No. 1011366-31-6

Chemical Name 5-(1,3-benzodioxol-5-yl)-2-phenyl-pyrazolo[1,5-a]pyrimidine-7-carboxylic acid, methyl ester

SMILES O=C(C1=CC(C2=CC3=C(OCO3)C=C2)=NC4=CC(C5=CC=CC=C5)=NN41)OC

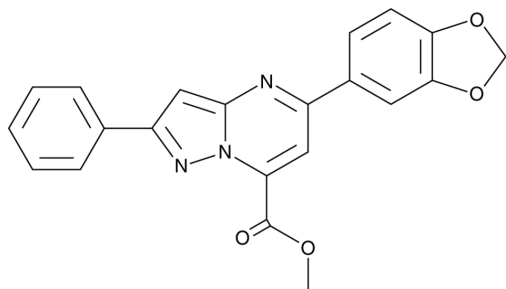
Formula $C_{21}H_{15}N_3O_4$ M.Wt 373.4

Solubility Acetonitrile: Slightly soluble: 0.1-1 mg/ml, DMSO: Sparingly soluble: 1-10 mg/ml Storage -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

MCI-INI-3 is an inhibitor of aldehyde dehydrogenase 1A3 (ALDH1A3; $K_i = 0.55 \text{ ?M}$).¹ It is selective for ALDH1A3 over ALDH1A1 ($K_i = 78.2 \text{ ?M}$). MCI-INI-3 (15 ?M) inhibits the conversion of retinol to retinaldehyde in U87MG glioblastoma cells. It reduces the viability of GSC-83 and GSC-326 glioblastoma cells when used at a concentration of 15 ?M .

References:

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

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[1]. Li, J., Garavaglia, S., Ye, Z., et al. A specific inhibitor of ALDH1A3 regulates retinoic acid biosynthesis in glioma stem cells. *Commun. Biol.* 4(1)1420(2021).

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