

For Research Use Only

1,4-DPCA



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Catalog Number: CM16172

产品信息

Catalog Number:
CM16172

CAS号:
331830-20-7

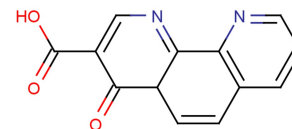
分子式:
C₁₃H₈N₂O₃

主要靶点:
HIF/HIF Prolyl-Hydroxylase

主要通路:
代谢|表观遗传

分子量:
240.21

溶解度:
DMSO:12 mg/mL (49.96 mM), Sonification is recommended.



体外活性

1,4-DPCA significantly reduces the colony sizes and invasive branches of T4-2 (10 μ M) and ZR-75-1 cells (20 μ M). 1,4-DPCA inhibits the proliferation in T4-2, ZR-75-1, MDA-MB-231 cells, and MDA-MB-157[1]. In mouse B6 cells, 1,4-DPCA specifically increases the expression of proangiogenic target genes including Hmox1 and Vegfa, and proglycolytic targets including Ldh-a, Pdk1, Glut1, and Pgk1[2].

体内活性

In mice, 1,4-DPCA effectively inhibits collagen deposition within and on the outer surface of the disc, and limits connective tissue ingrowth. 1,4-DPCA suppresses connective tissue ingrowth in porous porous poly (lactic-co-glycolic acid) discs implanted in the peritoneal cavity[3].

描述

1,4-DPCA is an inhibitor of prolyl-hydroxylase with an IC₅₀ of 2.4 μ M for collagen hydroxylation in human foreskin fibroblasts and 60 μ M for factor inhibiting HIF (FIH).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

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