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SW033291

产品编号: D50955

CAS: 459147-39-8

分子式: C21H20N2OS3

纯度: ≥98%

21)17-10-7-11-25-17/h4-11,13H,2-3,12,22H2,1H3

InChi Key: LCYAYKSMOVLVRL-UHFFFAOYSA-N

Smiles: CCCCS(=0)C1SC2=NC(=CC(=C2C=1N)C1C=CC=CC=1)C1=CC=CS1

外观: 固体粉末

作用通路: 15-PGDH

溶解性: DMSO up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: SW033291 is a highly potent and selective inhibitor of 15-PGDH enzyme with IC50 1.5 nM,

can increase prostaglandin PGE2 levels in bone marrow and other tissues. It inhibits 15- $\,$

 $PGDH\ with\ noncompetitive\ pattern.\ Treatment\ of\ A549\ cells\ with\ SW033291\ increased\ PGE2$

levels by 3.5-fold at 500 nM, with EC50 value of ~75 nM. SW033291 accelerates

hematopoietic recovery in mice receiving a bone marrow transplant. It also promotes tissue regeneration in mouse models of colon and liver injury. Tissues from 15-PGDH knockout mice demonstrate similar increased regenerative capacity. SW033291is a good compound

to validate 15-PGDH inhibition could be a new the rapeutic strategy for tissue regeneration in

diverse clinical contexts.