

Product Name : PS 423

Synonyms : PS423

Cat No. : M10841

CAS Number : 1221964-37-9

Molecular Formula : C₂₅H₂₃F₃O₉

Formula Weight : 524.45

Chemical Name : Bis(acetoxymethyl) 2-[3-oxo-1-phenyl-3-[4-(trifluoromethyl)phenyl]propyl]malonate

Description : PS 423 is a substrate-selective inhibitor of PDK1, inhibits the phosphorylation and activation of S6K without affecting the PKB/Akt signaling pathway in HEK293 cells, the prodrug of PS210; inhibits glucose uptake in C2C12 myoblasts; inhibits S6K but not PKB/Akt downstream signaling in muscle cells.

Pathway : PI3K/Akt/mTOR signaling

Target : PDK

Receptor : PDK

Solubility : —

SMILES : O=C(OCOC(C)=O)C(C(C1=CC=CC=C1)CC(C2=CC=C(C(F)(F)F)C=C2)=O)C(OCOC(C)=O)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Busschots K, et al. Chem Biol. 2012 Sep 21;19(9):1152-63. | 2. Arkin MR, et al. Chem Biol. 2014 Sep 18;21(9):1102-14.

