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KY02111

产品编号: D50748
CAS: 1118807-13-8
分子式: C18H17ClN2O3S
纯度: ≥98%
InChi: InChI=1S/C18H17ClN2O3S/c1-23-14-7-3-11(9-15(14)24-2)4-8-17(22)21-18-20-13-6-5-12(19)10-16(13)25-18/h3,5-7,9-10H,4,8H2,1-2H3,(H,20,21,22)
InChi Key: LXFKEVQQSKQXPR-UHFFFAOYSA-N
Smiles: COC1C=C(CCC(=O)NC2=NC3C=CC(Cl)=CC=3S2)C=CC=1OC
外观: 固体粉末
作用通路: Wnt
溶解性: DMSO up to 100 mM
保存条件: Store in dry, dark place for one year.
产品介绍: KY02111 is a potent and selective Wnt signaling pathway inhibitor discovered by a cell-based screening, which promotes differentiation of hESCs/iPSCs to cardiomyocytes when used at the second stage of differenitation. Sequential use of CHIR99021 (in the first stage to trigger mesoderm induction of hESCs/iPSCs) followed by KY02111 (or XAV939, another Wnt signaling inhibitor) produced robust cardiac differentiation of hESCs/iPSCs in a xeno-free, defined medium, devoid of serum and any kind of recombinant cytokines and hormones, such as BMP4, Activin A, or insulin. The direct target of KY02111 remains unknown, but results from the study indicate that KY02111 might function downstream from GSK3b and APC in b-catenin destruction complex, suggesting that KY02111 would be a powerful tool for not only stem cell research but also cancer studies.