



Data Sheet

Research Use Only

Compound Name

CHIR99021

Catalog Number

SM13

Alternative Names

CHIR-99021, CHIR 99021, CT 99021, CHIR 911, GSK-3 Inhibitor XVI, 6-[[2-[[4-(2,4-dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-3-pyridinecarbonitrile

Activity

CHIR99021 is an aminopyrimidine derivative. It inhibits GSK3 β (IC₅₀ = 6.7 nM) and GSK3 α (IC₅₀ = 10 nM) and functions as a WNT pathway activator.

Effect

It is widely used in definitive endoderm differentiation protocols.

Purity

>99%

CAS

252917-06-9

Formula

C₂₂H₁₈Cl₂N₈

Molecular Weight

465.35

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Naujok, O., et al. 2014. BMC Res Notes. 7(1): 273. PMID: 24779365
2. Tsukiyama, T. and Ohinata, Y. 2014. PLoS One. 9(4): e95329. PMID: 24736627