

Product Name : A-674563

Synonyms : A 674563; A674563

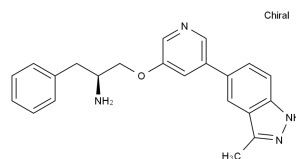
Cat No. : M15000

CAS Number : 552325-73-2

Molecular Formula : C₂₂H₂₂N₄O

Formula Weight : 358.40

Chemical Name : Benzeneethanamine, a-[[[5-(3-methyl-1H-indazol-5-yl)-3-pyridinyl]oxy]methyl]-, (aS)-



Description : A-674563 is a potent, selective and orally available AKT inhibitor with K_i of 11 nM (Akt1); increases the efficacy of paclitaxel in a PC-3 xenograft model; enhances the transcription of several chondrocyte marker genes, including Col2a1, Acan and Col11a2, in mouse primary chondrocytes by inhibiting Sox9 degradation through the ubiquitin-proteasome pathway; also suppresses FLT3-ITD positive AML both in vitro and in vivo.

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Akt

Receptor : Akt1; CDK2; ERK2; GSK-3β; PKA

Solubility : 10 mM in DMSO

SMILES : N[C@@H](CC1=CC=CC=C1)COC2=CC(C3=CC4=C(NN=C4C)C=C3)=CN=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Luo Y, et al. Mol Cancer Ther. 2005 Jun;4(6):977-86. | 2. Tei H, et al. Hum Cell. 2015 Jul;28(3):114-21. | 3. Wang A, et al. Oncotarget. 2016 May 17;7(20):29131-42. | 4. Kobayashi T, et al. Biochem Biophys Res Commun. 2018 Jan 1;495(1):1468-1475.