Product Data Sheet

Chemical Properties

Product Name: CGP60474
Cas No.: 164658-13-3
M.Wt: 355.82
Formula: C18H18ClN5O
Synonyms: CGP-60474; CGP 60474
Chemical Name: 3-[(4-[2-(3-chloroanilino)pyrimidin-4-yl]pyridin-2-yl]amino)propan-1-ol
Canonical SMILES: C1=CC(=CC(=C1)Cl)NC2=NC=CC(=N2)C3=CC(=NC=C3)NCCCO
Solubility: Soluble in DMSO
Storage: Store at -20°C
General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Cell Cycle/Checkpoint
Pathways: Cyclin-Dependent Kinases
Description:
CGP60474 is a potent inhibitor of cyclin-dependent kinases (CDKs) with IC50 value of 17 nM for CDK1 [1]. It is also an inhibitor of Protein Kinase C (PKC) [1].
CDKs are a family of protein kinases regulating the cell cycle. PKC plays an important role in signal transductions, cellular proliferation and differentiation [2].
CGP60474 was highly selective for PKC than other serine/threonine and tyrosine kinases and showed competitive kinetics relative to ATP [2].


Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.