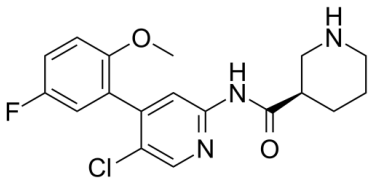
Data Sheet

Product Name:	CDK-IN-2
Cat. No.:	CS-0239
CAS No.:	1269815-17-9
Molecular Formula:	C18H19ClFN3O2
Molecular Weight:	363.81
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Solubility:	DMSO : ≥ 100 mg/mL (274.87 mM)



BIOLOGICAL ACTIVITY:

CDK-IN-2 is a potent and specific CDK9 inhibitor with IC50 of <8 nM, extracted from reference 1, example 4. IC50 Value: <8 nM [1] Target: CDK9 In vitro: In vivo:

PROTOCOL (Extracted from published papers and Only for reference)

Kinase Assay: [1] To 10 uL of cdk9/cyclinT1, 0.5 uL of test compound in dimethyl sulfoxide is added. 5TAMRA-cdk7tide and ATP are mixed. 10 uL of the 5TAMRA-cdk7tide/ATP mix is added to start the reaction. The reaction is allowed to proceed for 4.5 hrs. 60 uL of IMAP Progressive Binding Reagent is added. After >1 hr of incubation, plates are read on the Envision 2101 from Perkin-Elmer. The assay is run in a 384-well format using black corning plates.

References:

[1]. Keith B Pfister, et al. Heteroaryl compounds as kinase inhibitors. 2011, WO2011026917A1.

CAIndexNames:

3-Piperidinecarboxamide, N-[5-chloro-4-(5-fluoro-2-methoxyphenyl)-2-pyridinyl]-, (3R)-

SMILES:

FC1=CC(C2=CC(NC([C@H]3CNCCC3)=O)=NC=C2Cl)=C(C=C1)OC

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA