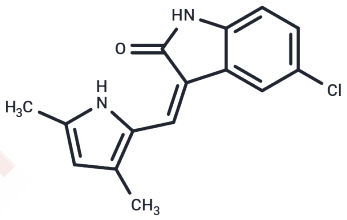
Data Sheet (Cat.No.T2340)

AC1NS4RE

Chemical Properties



CAS No. : 1055412-47-9

Formula: C15H13ClN2O

Molecular Weight: 272.73

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	It is a tyrosine kinase inhibitor.
Targets(IC50)	Apoptosis,FLT,Tyrosinase
Kinase Assay	Competitor assay kits (green) are used to determine relative in vitro binding affinities of ARN-509 for the rat AR ligand binding domain (LBD), human progesterone receptor (PR) LBD, and full-length human estrogen receptor-alpha (ERα) and human glucocorticoid receptor (GR). Each hormone dose is performed in triplicate, relative error is calculated from the standard error of the mean (SEM), and binding curves are fit using a single binding site competition model (Prism statistical analysis software package) with R2>0.8. Experiments are conducted multiple times with SEM<0.3 log units from the average logIC50 value. Ki values are calculated as averages across experiments with SEM, and binding affinities are reported as a percentage relative to the tight-binding ligand control for that receptor[1].

Solubility Information

Solubility	DMSO: 2.73 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6666 mL	18.3332 mL	36.6663 mL
5 mM	0.7333 mL	3.6666 mL	7.3333 mL
10 mM	0.3667 mL	1.8333 mL	3.6666 mL
50 mM	0.0733 mL	0.3667 mL	0.7333 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rizzi, E., Cassinelli, G., Dallavalle, S., Lanzi, C., Cincinelli, R., & Nannei, R. et al. (2007). Synthesis and RET protein kinase inhibitory activity of 3-arylureidobenzylidene-indolin-2-ones. Bioorganic & Medicinal Chemistry Letters, 17 (14), 3962-3968. doi: 10.1016/j.bmcl.2007.04.091

Sun, L., Tran, N., Tang, F., App, H., Hirth, P., McMahon, G., & Tang, C. (1998). Synthesis and Biological Evaluations of 3-Substituted Indolin-2-ones: A Novel Class of Tyrosine Kinase Inhibitors That Exhibit Selectivity toward Particular Receptor Tyrosine Kinases. Journal Of Medicinal Chemistry, 41(14), 2588-2603. doi: 10.1021/jm9820123i