

CKD-712

Chemical Properties

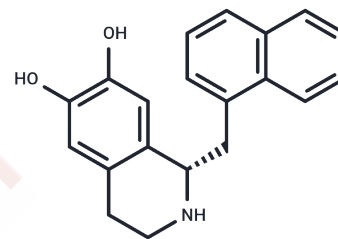
CAS No. : 626252-75-3

Formula: C₂₀H₁₉NO₂

Molecular Weight: 305.37

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	CKD-712 is a nuclear factor NF-kappa B inhibitor. CKD-712 suppressed MMP-9, but not MMP-2 and other NF-kB-regulated proteins involved in cancer metastasis such as VEGF. CKD-712 induced cell cycle arrest at G2M phase by suppressing cyclin A, cyclin B and CDK-1 expression.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2747 mL	16.3736 mL	32.7472 mL
5 mM	0.6549 mL	3.2747 mL	6.5494 mL
10 mM	0.3275 mL	1.6374 mL	3.2747 mL
50 mM	0.0655 mL	0.3275 mL	0.6549 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

Park SI, Kim J, Yu KS, Jang IJ, Lee S. Changes in Cardiac Function After a Single Intravenous Administration of CKD-712 in Healthy Male Volunteers. Clin Drug Investig. 2017 Feb 3. doi: 10.1007/s40261-017-0494-3. [Epub ahead of print] PubMed PMID: 28160190.

Lee WS, Yun JW, Nagappan A, Lu JN, Kim MJ, Lee JH, Kim DH, Choi YH, Kim HJ, Chang KC, Jung JM. Synthesized tetrahydroisoquinoline alkaloid exerts anticancer effects at least in part by suppressing NF- κ B-regulated proteins in A549 human lung cancer cells. Oncol Rep. 2015 Mar;33(3):1141-6. doi: 10.3892/or.2014.3658. PubMed PMID: 25482101.

Kim YM, Tsoyi K, Jang HJ, Park EJ, Park SW, Kim HJ, Hwa JS, Chang KC. CKD712, a synthetic isoquinoline alkaloid, enhances the anti-cancer effects of paclitaxel in MDA-MB-231 cells through regulation of PTEN. Life Sci. 2014 Sep 1;112(1-2):49-58. doi: 10.1016/j.lfs.2014.07.015. PubMed PMID: 25058922.

Hsu YH, Chang CC, Yang NJ, Lee YH, Juan SH. RhoA-mediated inhibition of vascular endothelial cell mobility: positive feedback through reduced cytosolic p21 and p27. J Cell Physiol. 2014 Oct;229(10):1455-65. doi: 10.1002/jcp.24583. PubMed PMID: 24535918.

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