

NKP-1339

## Chemical Properties

CAS No. : 197723-00-5

Formula: C<sub>14</sub>H<sub>12</sub>Cl<sub>4</sub>N<sub>4</sub>NaRu

Molecular Weight: 502.14

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	NKP-1339 (IT-139) induces G2/M cell cycle arrest, blockage of DNA synthesis, and induction of apoptosis via the mitochondrial pathway.
Targets(IC50)	Apoptosis,DNA/RNA Synthesis
In vitro	NKP-1339 can strongly bind to serum proteins such as albumin and transferrin and activates in the reductive tumor milieu.

## Solubility Information

Solubility	DMSO: 55 mg/mL (109.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--------------------------------------------------------------------------------------------------------------------------

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9915 mL	9.9574 mL	19.9148 mL
5 mM	0.3983 mL	1.9915 mL	3.983 mL
10 mM	0.1991 mL	0.9957 mL	1.9915 mL
50 mM	0.0398 mL	0.1991 mL	0.3983 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

Robert Trondl, et al. NKP-1339, the first ruthenium-based anticancer drug on the edge to clinical application. Chemical Science. Chemical Science

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481