

## NAMI-A

## Chemical Properties

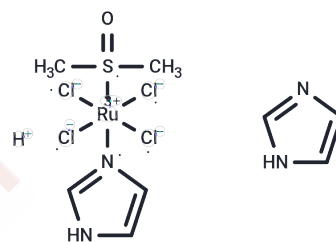
CAS No. : 201653-76-1

Formula: C<sub>8</sub>H<sub>15</sub>Cl<sub>4</sub>N<sub>4</sub>ORuS

Molecular Weight: 458.18

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	NAMI-A, a ruthenium-based compound, selectively targets tumor metastasis by inhibiting cancer cell adhesion and migration.
Targets(IC50)	FAK
In vitro	NAMI-A can significantly affect tumor cells with metastatic ability. The half-life of NAMI-A elimination from the lungs is longer than for the liver, kidney, and primary tumor. NAMI-A bound to collagen is active on tumor cells as shown in vitro by an invasion test, using a modified Boyden chamber and Matrigel, and it inhibits the matrix metalloproteinases MMP-2 and MMP-9 at micromolar concentrations.[1] The ruthenium drug NAMI-A inhibits the adhesion and migration of colorectal cancer cells. NAMI-A decreases α5β1 integrin expression and FAK auto-phosphorylation on Tyr 397.[2]

## Solubility Information

Solubility	H <sub>2</sub> O: 8.28 mg/mL (18.07 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1825 mL	10.9127 mL	21.8255 mL
5 mM	0.4365 mL	2.1825 mL	4.3651 mL
10 mM	0.2183 mL	1.0913 mL	2.1825 mL
50 mM	0.0437 mL	0.2183 mL	0.4365 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.

### Reference

Sava G et al. Dual Action of NAMI-A in inhibition of solid tumor metastasis: selective targeting of metastatic cells and binding to collagen. Clin Cancer Res. 2003 May;9(5):1898-905.

Pelillo C et al. Inhibition of adhesion, migration and of  $\alpha 5 \beta 1$  integrin in the HCT-116 colorectal cancer cells treated with the ruthenium drug NAMI-A. J Inorg Biochem. 2016 Jul;160:225-35.

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