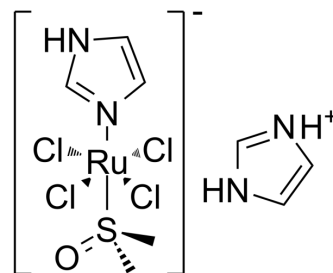


NAMI-A

Cat. No.:	HY-19376		
CAS No.:	201653-76-1		
Molecular Formula:	C ₅ H ₁₀ Cl ₄ N ₂ ORuS.C ₃ H ₄ N ₂ .H		
Molecular Weight:	458.18		
Target:	FAK		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 8.28 mg/mL (18.07 mM; Need ultrasonic and warming)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 6.67 mg/mL (14.56 mM); Clear solution; Need ultrasonic and warming and heat to 60°C				

BIOLOGICAL ACTIVITY

Description	<p>NAMI-A is a ruthenium-based drug characterised by the selective activity against tumour metastases, inhibits the adhesion and migration. In vitro: NAMI-A can significantly affect tumor cells with metastatic ability. The half lifetime of NAMI-A elimination from the lungs is longer than for 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] In vivo: The reference for NAMI-A is 35 mg/kg/day. [1]</p>
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REFERENCES

[1]. 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.

[2]. 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.

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

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