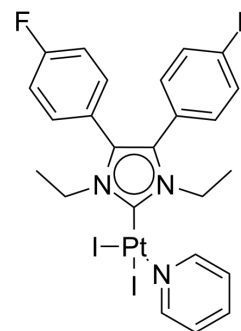


## ROS-ERS inducer 1

<b>Cat. No.:</b>	HY-142956		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>23</sub> F <sub>2</sub> I <sub>2</sub> N <sub>3</sub> Pt		
<b>Molecular Weight:</b>	840.35		
<b>Target:</b>	Reactive Oxygen Species		
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 60 mg/mL (71.40 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.1900 mL	5.9499 mL	11.8998 mL
5 mM	0.2380 mL	1.1900 mL	2.3800 mL
10 mM	0.1190 mL	0.5950 mL	1.1900 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

ROS-ERS inducer 1 is a type II ICD (immunogenic cell death) inducer. ROS-ERS inducer 1 is a Pt(II)-N-heterocyclic carbene (Pt(II)-NHC) complex derived from 4,5-diarylimidazole. ROS-ERS inducer 1 successfully induces endoplasmic reticulum stress (ERS) accompanied by reactive oxygen species (ROS) generation and finally lead to the release of damage-associated molecular patterns (DAMPs) in HCC cells. ROS-ERS inducer 1 displays much higher anticancer activities than Cisplatin<sup>[1]</sup>.

### REFERENCES

[1]. Bian M, et al. Pt(II)-NHC Complex Induces ROS-ERS-Related DAMP Balance to Harness Immunogenic Cell Death in Hepatocellular Carcinoma. *J Med Chem.* 2022;65(3):1848-1866.

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

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