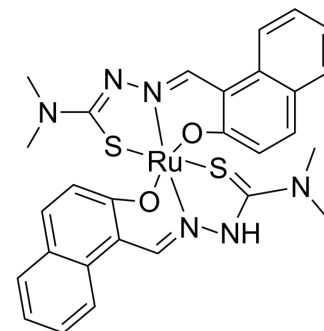


## Caspase-3 activator 1

Cat. No.:	HY-156154
Molecular Formula:	C <sub>28</sub> H <sub>27</sub> N <sub>6</sub> O <sub>2</sub> RuS <sub>2</sub>
Molecular Weight:	644.75
Target:	Pyroptosis
Pathway:	Apoptosis; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Caspase-3 activator 1 (compound 4b) is a Ru(III) metal complex that inhibits gastric tumor growth and metastasis. Caspase-3 activator 1 mediates caspase-3 cleavage, which in turn causes Caspase-3 to cleave gasdermin E (GSDME) to produce the GSDME-N terminus, causing gastric tumor cell membrane perforation. Caspase-3 activator 1 is capable of inducing pyroptosis and pyroptosis-induced immune responses and can be assembled with decitabine DCT (HY-A0004) into a 4b-DCT-Lip lipid delivery system<sup>[1]</sup>.

### REFERENCES

[1]. Li W, et al. Developing a Ruthenium(III) Complex to Trigger Gasdermin E-Mediated Pyroptosis and an Immune Response Based on Decitabine and Liposomes: Targeting Inhibition of Gastric Tumor Growth and Metastasis. *J Med Chem.* 2023 Sep 13...

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

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