# JG-231

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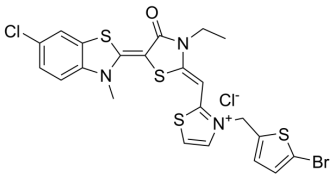
| **Cat. No.:** | HY-124611 |
| **CAS No.:** | 1627126-59-3 |
| **Molecular Formula:** | $C_{22}H_{18}BrCl_2N_3OS_4$ |
| **Molecular Weight:** | 619.47 |
| **Target:** | HSP |
| **Pathway:** | Cell Cycle/DNA Damage; Metabolic Enzyme/Protease |
| **Storage:** | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 2 mg/mL (3.23 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.6143 mL | 8.0714 mL | 16.1428 mL |
| | 5 mM | --- | --- | --- |
| | 10 mM | --- | --- | --- |

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

## BIOLOGICAL ACTIVITY

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| **Description** | JG-231 is an analogue of JG-98 with anticancer effects. JG-231 inhibits the interaction of Hsp70-BAG3. JG-231 inhibits MDA-MB-231 heterograft tumor models of triple negative breast cancer (TNBC)[1]. |
| **$IC_{50}$ & Target** | HSP70 |

## REFERENCES

[1]. Shao H, et al. Exploration of Benzothiazole Rhodacyanines as Allosteric Inhibitors of Protein-Protein Interactions with Heat Shock Protein 70 (Hsp70). J Med Chem. 2018 Jul 26;61(14):6163-6177.

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

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