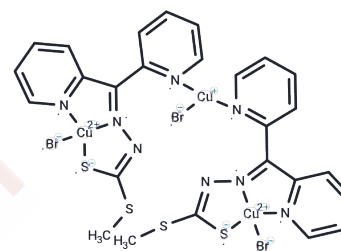


Complex 3

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 2480150-28-3 |
| Formula: | C ₂₆ H ₂₂ Br ₃ Cu ₃ N ₈ S ₄ |
| Molecular Weight: | 1005.12 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|--|
| Description | Complex 3 is a fluorescent dithiocarbamate-copper complex exhibiting anticancer properties, specifically targeting mitochondria. It has excitation/emission maxima at 455-495/535 nm. Complex 3 inhibits the growth of pancreatic cancer cells BxPC-3, AsPC-1, PANC-1, and WI38, with IC ₅₀ values of 0.74, 0.41, 0.62, and 2.06 μM, respectively. In AsPC-1 cells, it induces lipid peroxidation, mitochondrial fragmentation and constriction, apoptosis, and cytokine-cytokine receptor interaction dysfunction. Furthermore, Complex 3 reduces tumor volume and induces apoptosis within tumors in AsPC-1 mouse xenograft models. |
| Targets(IC ₅₀) | Others |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.9949 mL | 4.9745 mL | 9.9491 mL |
| 5 mM | 0.199 mL | 0.9949 mL | 1.9898 mL |
| 10 mM | 0.0995 mL | 0.4975 mL | 0.9949 mL |
| 50 mM | 0.0199 mL | 0.0995 mL | 0.199 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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