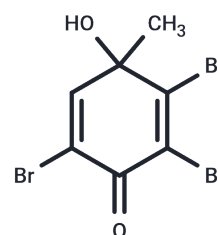


Nrf2 activator-20

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 89883-16-9 |
| Formula: | C7H5Br3O2 |
| Molecular Weight: | 360.83 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Nrf2 activator-20 is a potent Nrf2 activator with anti-inflammatory and antioxidant properties. It activates anti-inflammatory pathways by disrupting the interaction between Keap1 and Nrf2, demonstrating beneficial effects in vivo. Nrf2 activator-20 is applicable for studies on acute respiratory distress syndrome (ARDS) and ischemia-reperfusion injury. |
| Targets(IC50) | Nrf2 |
| In vitro | Nrf2 activator-20 (Compound AP9) at 1 μ M for 2 hours robustly activates the Nrf2 pathway in both LPS-stimulated and unstimulated RAW cells. |
| In vivo | Nrf2 activator-20 (Compound AP9) administered at 0.78 mg/kg via intraperitoneal injection (single dose) significantly alleviated liver damage in the mouse model of hepatic ischemia-reperfusion injury. Additionally, Nrf2 activator-20 (0.78 mg/kg, i.p., single dose) improved lung injury in a mouse model induced by Escherichia coli. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.7714 mL | 13.8569 mL | 27.7139 mL |
| 5 mM | 0.5543 mL | 2.7714 mL | 5.5428 mL |
| 10 mM | 0.2771 mL | 1.3857 mL | 2.7714 mL |
| 50 mM | 0.0554 mL | 0.2771 mL | 0.5543 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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