

## Anticancer agent 154

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>23</sub>N<sub>5</sub>O<sub>2</sub>

Molecular Weight: 389.45

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	Anticancer agent 154 (Compound 8h) enhances reactive oxygen species production, causes mitochondrial damage, and promotes cell apoptosis and DNA damage. It triggers ferroptosis by depleting GSH, diminishing GPX4 expression, and escalating lipid peroxidation. Additionally, it effectively suppresses the proliferation of various cancer cells (HT29, H1975, A549, and MCF-7) with IC50 values ranging from 1.0 to 1.9 $\mu$ M [1].
Targets(IC50)	Apoptosis,Ferroptosis,Reactive Oxygen Species

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5677 mL	12.8386 mL	25.6772 mL
5 mM	0.5135 mL	2.5677 mL	5.1354 mL
10 mM	0.2568 mL	1.2839 mL	2.5677 mL
50 mM	0.0514 mL	0.2568 mL	0.5135 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

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