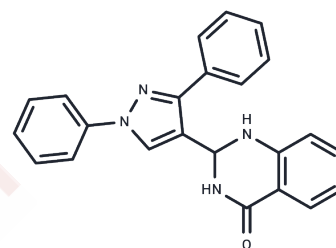


## Antioxidant agent-11

## Chemical Properties

CAS No. :	474379-42-5
Formula:	C23H18N4O
Molecular Weight:	366.42
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	Antioxidant agent-11 (Compound 3d) is a novel 2,3-dihydroquinazolin-4(1H)-ones derivative exhibiting preliminary anticancer and antioxidant activities. As a synthetic small molecule, it is utilized to evaluate the impact of specific aryl and pyrazole substituents on the biological activity of the dihydroquinazolinone scaffold. Research indicates that the compound shows moderate efficacy in free radical scavenging and cancer cell proliferation inhibition, serving as a reference for structure-activity relationship (SAR) studies of this scaffold.
Targets(IC50)	Antioxidant
In vitro	Antioxidant agent-11 exhibits weak anticancer and antioxidant activities; its biological potency is influenced by the 2-position substituents [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (218.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.7291 mL	13.6455 mL	27.2911 mL
5 mM	0.5458 mL	2.7291 mL	5.4582 mL
10 mM	0.2729 mL	1.3646 mL	2.7291 mL
50 mM	0.0546 mL	0.2729 mL	0.5458 mL

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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.

### Reference

Chen JY, et al. A novel sialyltransferase inhibitor suppresses FAK/paxillin signaling and cancer angiogenesis and metastasis pathways. *Cancer Res.* 2011 Jan 15;71(2):473-83.

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