Data Sheet (Cat.No.TN6750)

TargetMol

2-tert-Butyl-1,4-benzoquinone

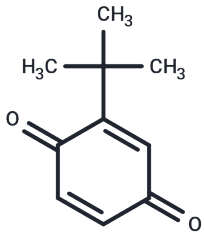
Chemical Properties

CAS No. : 3602-55-9

Formula: C10H12O2

Molecular Weight: 164.2

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	2-tert-Butyl-1,4-benzoquinone (TBQ), an electrophilic metabolite of butylated hydroxyanisole (BHA), activates Nrf2 and S-arylates its negative regulator Keap1 in RAW264.7 cells.
Targets(IC50)	Apoptosis,Nrf2

Solubility Information

Solubility	DMSO: 60 mg/mL (365.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0901 mL	30.4507 mL	60.9013 mL
5 mM	1.218 mL	6.0901 mL	12.1803 mL
10 mM	0.609 mL	3.0451 mL	6.0901 mL
50 mM	0.1218 mL	0.609 mL	1.218 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.

Reference

Abiko Y, Kumagai Y. Interaction of Keap1 modified by 2-tert-butyl-1,4-benzoquinone with GSH: evidence for S-transarylation. Chem Res Toxicol. 2013 Jul 15;26(7):1080-7.

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