



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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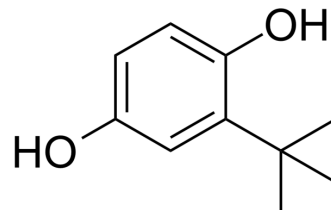
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TBHQ (Standard)

Cat. No.:	HY-100489R
CAS No.:	1948-33-0
Molecular Formula:	C ₁₀ H ₁₄ O ₂
Molecular Weight:	166.22
Target:	Keap1-Nrf2; ERK; Autophagy; Apoptosis; Ferroptosis
Pathway:	NF-κB; MAPK/ERK Pathway; Stem Cell/Wnt; Autophagy; Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 56.66 mg/mL (340.87 mM)
* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.0161 mL	30.0806 mL	60.1612 mL
	5 mM	1.2032 mL	6.0161 mL	12.0322 mL
	10 mM	0.6016 mL	3.0081 mL	6.0161 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TBHQ (Standard) is the analytical standard of TBHQ. This product is intended for research and analytical applications. TBHQ (tert-Butylhydroquinone) is a widely used Nrf2 activator, protects against Doxorubicin (DOX)-induced cardiotoxicity through activation of Nrf2^[1]. TBHQ (tert-Butylhydroquinone) is also an ERK activator; rescues Dehydrocorydaline (DHC)-induced cell proliferation inhibition in melanoma^[2].

REFERENCES

- [1]. Lin-Feng Wang, et al. Tert-butylhydroquinone ameliorates doxorubicin-induced cardiotoxicity by activating Nrf2 and inducing the expression of its target genes. *Am J Transl Res.* 2015; 7(10): 1724–1735.
- [2]. Hu H, et al. Dehydrocorydaline inhibits cell proliferation, migration and invasion via suppressing MEK1/2-ERK1/2 cascade in melanoma. *Onco Targets Ther.* 2019 Jul 2;12:5163-5175.
- [3]. XIAOJING SHI, et al. Tert-butylhydroquinone attenuates the ethanol-induced apoptosis of and activates the Nrf2 antioxidant defense pathway in H9c2 cardiomyocytes. *Int J Mol Med.* 2016 Jul; 38(1): 123–130.

Caution: Product has not been fully validated for medical applications. For research use only.

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