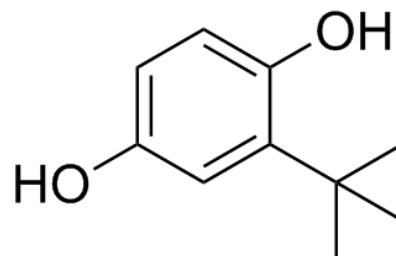


Product Name : TBHQ
Cat. No. : PC-42172
CAS No. : 1948-33-0
Molecular Formula : C₁₀H₁₄O₂
Molecular Weight : 166.217
Target : Keap1-Nrf2
Solubility : 10 mM in DMSO



Biological Activity

TBHQ (tert-Butylhydroquinone) is a phenolic antioxidant and a selective inducer and activator of **Nrf2** that ameliorates doxorubicin-induced cardiotoxicity in vivo.

TBHQ ameliorates the doxorubicin-induced oxidative stress and apoptosis, increases the nuclear accumulation of Nrf2 and the Nrf2-regulated gene expression, including HO-1 and NQO-1 expression.

TBHQ also ameliorates early brain injury after experimental subarachnoid emorrhage in mice by enhancing Nrf2-independent autophagy.

References

Lin H, et al. *Mol Pharmacol*. 2014 May;85(5):682-91.

Wang LF, et al. *Am J Transl Res*. 2015 Oct 15;7(10):1724-35.

Li T, et al. *Neurochem Res*. 2015 Sep;40(9):1829-38.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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