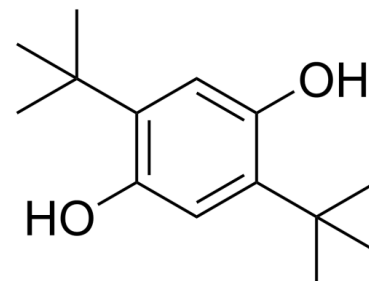


## Data Sheet

<b>Product Name:</b>	2,5-Di-tert-butylhydroquinone
<b>Cat. No.:</b>	CS-W013115
<b>CAS No.:</b>	88-58-4
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>22</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	222.32
<b>Target:</b>	COX; Lipoxygenase
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : 100 mg/mL (449.80 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

2,5-Di-tert-butylhydroquinone (DTBHQ), the indirect food additive, regulates the activity of **5-lipoxygenase** as well as the activity of **COX-2** (IC<sub>50</sub>=1.8 and 14.1 μM for 5-LO and COX-2, respectively) [1]. *In Vitro*: DTBHQ influences arachidonic acid (AA) metabolism in biologically relevant concentrations in vitro[1].

### References:

[1]. Zsofia Kutil, et al. The influence of the quinone antioxidants tert-butylhydroquinone and 2,5-di-tert-butylhydroquinone on the arachidonic acid metabolism in vitro. Food and Agricultural Immunology. Volume 26, 2015-Issue 4.

### CAIndexNames:

1,4-Benzenediol, 2,5-bis(1,1-dimethylethyl)-

### SMILES:

OC1=CC(C(C)(C)C)=C(O)C=C1C(C)(C)C

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

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