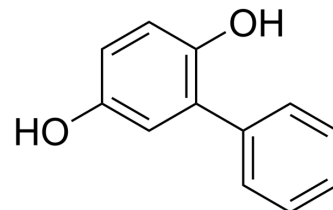


## Phenylhydroquinone

Cat. No.:	HY-W016181
CAS No.:	1079-21-6
Molecular Formula:	C <sub>12</sub> H <sub>10</sub> O <sub>2</sub>
Molecular Weight:	186.21
Target:	MDM-2/p53; ERK; p38 MAPK
Pathway:	Apoptosis; MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Phenylhydroquinone (PHQ) is an orally active thymic atrophy inducer which can up-regulate apoptosis through activation of p53. PHQ can be used for research of thymic atrophy <sup>[1]</sup> .	
IC <sub>50</sub> & Target	ERK1	ERK2
In Vitro	Phenylhydroquinone (10 μM, 3 h) activates p53 through phosphorylation of Erk1/2 and p38 but not through ATR phosphorylation in mouse thymocytes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

[1]. Nakata Y, et al. Phenylhydroquinone induces loss of thymocytes through cell cycle arrest and apoptosis elevation in p53-dependent pathway. J Toxicol Sci. 2013;38(3):325-35.

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

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