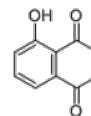


**Product Name** : Juglone  
**Cat. No.** : PC-61683  
**CAS No.** : 481-39-0  
**Molecular Formula** : C<sub>10</sub>H<sub>6</sub>O<sub>3</sub>  
**Molecular Weight** : 174.16  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

Juglone (5-HN) is a plant-derived 1,4-naphthoquinone with confirmed antibacterial and antitumor activities. Juglone inhibits the *S. aureus* bacterial tricarboxylic acid cycle (TCA cycle), as well as DNA and RNA synthesis, thus leading to cell collapse.

Juglone induces apoptosis of tumor stem-like cells through ROS-p38 pathway in glioblastoma in vitro and in vivo. Juglone also reactivates latent HIV-1 through ROS and NF-kappaB without inducing global T cell activation.

## References

- Wang J, et al. Nat Prod Commun. 2016 Jun;11(6):825-7.  
Yang HC, et al. J Clin Invest. 2009 Nov;119(11):3473-86.  
Wu J, et al. BMC Neurol. 2017 Apr 7;17(1):70.

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

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