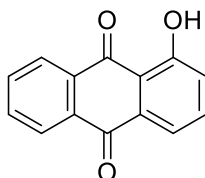


1-Hydroxyanthraquinone

Code No.: **BIA-H2304**

Pack sizes: **25 mg, 100 mg**



Synonyms : Erythroxyanthraquinone, NSC 8640, α -Hydroxyanthraquinone

Specifications

CAS #	: 129-43-1
Molecular Formula	: $C_{14}H_8O_3$
Molecular Weight	: 224.21
Source	: <i>Rubia tinctorum</i>
Appearance	: Yellow-green solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

1-Hydroxyanthraquinone is isolated from the heartwood of *T. avellanedae*. 1-Hydroxyanthraquinone has antitumor, cytotoxic and anti-inflammatory properties. 1-Hydroxyanthraquinone inhibits the growth of *S. xylosus* and biofilm formation in vitro by regulating the GS protein, a vital virulence factor.

References

1. Naturally occurring quinones. Part X.I The quinonoid constituents of *Tabebuia avellanedae* (Bignoniaceae). Burnett A.R. & Thornson R.H. J Chem Soc. 1967, 2100.
2. Antitumor and immunosuppressive activity of hydroxyanthraquinones and their glucosides. Hilgert I. et al. Folia biologica 1977, 23, 99.
3. The synergistic effect of 1-hydroxyanthraquinone on methylazoxymethanol acetate-induced carcinogenesis in rats. Mori Y. et al. Carcinogenesis 1991, 12, 335.
4. 1-Hydroxyanthraquinone exhibited antibacterial activity by regulating glutamine synthetase of *Staphylococcus xylosus* as a virulence factor. Wang J. et al. Biomed Pharmacother. 2020, 123, 109779.