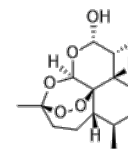


Product Name : Dihydroartemisinin
Cat. No. : PC-27967
CAS No. : 71939-50-9
Molecular Formula : C₁₅H₂₄O₅
Molecular Weight : 284.35
Target : Parasite
Solubility : 10 mM in DMSO



Biological Activity

Dihydroartemisinin (DHA, Arteminol, β-Dihydroartemisinin) is an **antimalarial** agent and semi-synthetic derivative of Artemisinin, also has anti-inflammatory and anti-cancer effect, directly binds to **YTHDF2** and inhibits its function, induces autophagy by inhibiting **NF-κB** activation, induces iron-dependent cell death (ferroptosis) in tumor cells. Dihydroartemisinin exerts cytotoxic effects and inhibits hypoxia inducible factor-1α activation in C6 glioma cells. Dihydroartemisinin shows selective inhibition of ovarian cancer cell growth, apoptosis induction, and G2 arrest. Dihydroartemisinin promotes neurological rehabilitation after ischemic stroke by targeting TAK1-CREB1 signaling pathway to inhibit ferroptosis. Dihydroartemisinin inhibits Epstein-Barr virus reactivation and replication targeting lytic proteins. DHA significantly alleviated arthritis and inhibited neutrophil extracellular traps (NETs) formation both in vivo and in vitro.

References

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 Moore JC, et al. *Cancer Lett*. 1995 Nov 27;98(1):83-7.
 Ookko E, et al. *Phytomedicine*. 2015 Oct 15;22(11):1045-54.

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

E-mail: tech@probechem.com