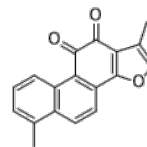


Product Name : Tanshinone I
Cat. No. : PC-28063
CAS No. : 568-73-0
Molecular Formula : C₁₈H₁₂O₃
Molecular Weight : 276.29
Target : Phospholipase
Solubility : 10 mM in DMSO



Biological Activity

Tanshinone I is a natural compound isolated from the roots of *Salvia miltiorrhiza* Bunge with antagonist activity at **GABAA receptors**, inhibits type IIA human recombinant **sPLA2** (IC₅₀=11 uM) and rabbit recombinant **cPLA2** (IC₅₀=82 uM), also is a **Syk** inhibitor (IC₅₀=1.64 uM) and exhibits anti-mast cell degranulation activity in vitro (IC₅₀=2.76 uM).

Tanshinone I ameliorates the learning and memory impairments induced by diazepam and MK-801 through activation of ERK signalling.

Tanshinone I also inhibits **SARS-CoV-2 PLpro** with IC₅₀ of 2.21 uM.

Tanshinone I inhibits PGE(2) formation from LPS-induced RAW macrophages with IC₅₀ of 38 uM.

Tanshinone I shows in vivo antiinflammatory activity in rat carrageenan-induced paw oedema and adjuvant-induced arthritis.

References

Kim DH, et al. *Br J Pharmacol*. 2009 Oct;158(4):1131-42.

Zhao Y, et al. *Protein Cell*. 2021 Nov;12(11):877-888.

Wang X, et al. *Molecules*. 2018 Nov 28;23(12):3114.

Kim SY, et al. *Phytother Res*. 2002 Nov;16(7):616-20.

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

E-mail: tech@probechem.com