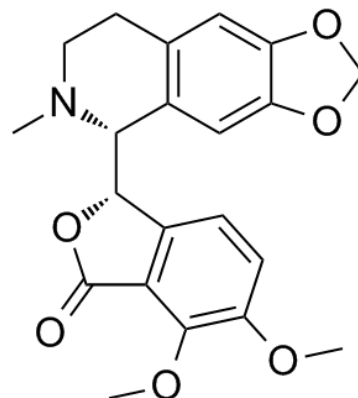


Product Name : Hydrastine
Cat. No. : PC-46979
CAS No. : 118-08-1
Molecular Formula : C₂₁H₂₁NO₆
Molecular Weight : 383.3945
Target : p21-activated Kinase (PAK)
Solubility : 10 mM in DMSO



Biological Activity

Hydrastine is an alkaloid of *Hydrastis canadensis* used in many dietary supplements intended to enhance the immune system.

Hydrastine inhibits **PAK4** kinase activity, suppresses the proliferation and invasion of human lung adenocarcinoma cells, inhibits expression of cyclin D1/D3 and CDK2/4/6, leading to cell cycle arrest at the G1 phase.

Hydrastine also promotes the early apoptosis of lung adenocarcinoma cells through the mitochondrial apoptosis pathway.

References

Guo B, et al. *Oncol Rep*. 2016 Apr;35(4):2246-56.

Song S, et al. *Org Biomol Chem*. 2015 Mar 28;13(12):3803-18.

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

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