



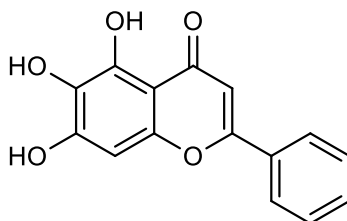
Catalog # 10-2773

Baicalein

491-67-8

5,6,7-Trihydroxyflavone

Lot # X101400



Inhibitor of protein tyrosine kinase in leukemia (CEM) cells. Induces cell cycle arrest and apoptosis¹. Originally reported as a selective inhibitor of 12-lipoxygenase, baicalein has since been shown to inhibit both 12-LO and 15-LO (IC₅₀=0.64 μ M for 12-LO and 1.6 μ M for 15-LO)². Displays antiinflammatory activity and inhibits adjuvant-induced arthritis. Also inhibits prolyl oligopeptidase (IC₅₀=36 μ M)³.

- 1) Lee et al. (2005), *Baicalein induced cell cycle arrest and apoptosis in human lung squamous carcinoma CH27 cells*; Anticancer Res., **25** 959
- 2) Deschamps et al. (2006), *Baicalein is a potent in vitro inhibitor against both reticulocyte 15-human and platelet 12-human lipoxygenases*; Bioorg. Med. Chem., **14** 4295
- 3) Tarrago et al. (2008), *Baicalin, a prodrug able to reach the CNS, is a prolyl oligopeptidase inhibitor*; Bioorg. Med. Chem., **16** 7516

PHYSICAL DATA

Molecular Weight:	270.24
Molecular Formula:	C ₁₅ H ₁₀ O ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml)
Physical Description:	Yellow to yellow-green solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 week.

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