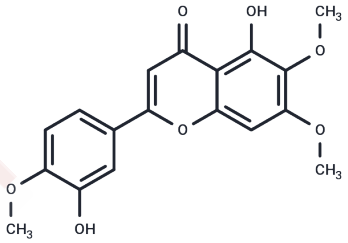
Data Sheet (Cat.No.T7032)

TargetMol

Eupatorin

Chemical Properties



CAS No. : 855-96-9

Formula: C18H16O7

Molecular Weight: 344.32

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Eupatorin has antiproliferative and antiangiogenic effects. Eupatorin has antiproliferative and cytostatic effects on MDA-MB-468 human breast cancer cells due to CYP1-mediated metabolism. Eupatorin-induced cell death is mediated by both the extrinsic and the intrinsic apoptotic pathways and through a mechanism dependent on reactive oxygen species generation. Eupatorin also has meaningful anti-inflammatory property.
Targets(IC50)	Cytochromes P450
In vivo	Balsalazide is a new 5-aminosalicylic acid (5-ASA) containing prodrug. High dose balsalazide (3.0 g twice daily) was superior in maintaining remission in patients with ulcerative colitis compared with a low dose (1.5 g twice daily) or a standard dose of mesalazine (0.5 g three times daily). All three treatments were safe and well tolerated [1]. Balsalazide is approved for the treatment of mild-to-moderate active UC. It is efficacious for the induction of remission in mild to moderate UC and has a favorable safety profile, with the added advantages of greater efficacy of remission induction and rapidity of onset [2].

Solubility Information

Solubility	DMSO: 10 mg/mL (29.04 mM),Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Dolečková I, et al. Antiproliferative and antiangiogenic effects of flavone eupatorin, an active constituent of chloroform extract of Orthosiphon stamineus, leaves[J]. Fitoterapia, 2012, 83(6):12000-12007.
Estévez S, et al. Eupatorin-induced cell death in human leukemia cells is dependent on caspases and activates the mitogen-activated protein kinase pathway.[J]. Plos One, 2014, 9(11):e112536.
Laavola M, et al. Flavonoids eupatorin and sinensetin present in Orthosiphon stamineus leaves inhibit inflammatory gene expression and STAT1 activation[J]. Planta Medica, 2012, 78(08):779-786.
Androutsopoulos V, et al. Antiproliferative and cytostatic effects of the natural product eupatorin on MDA-MB-468 human breast cancer cells due to CYP1-mediated metabolism[J]. Breast Cancer Research,10,3(2008-05-02), 2008, 10(3):R39.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481