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## DATASHEET

### Eupatilin

## Product overview

Name	Eupatilin
Cat No	HB3894
Purity	>98%
Description	Selective 5-lipoxygenase (5-LOX) inhibitor

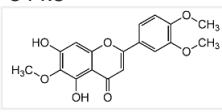
## Biological Data

<b>Biological description</b>	Selective inhibitor of 5-lipoxygenase. Apoptosis and cell cycle arrest inducer. Anticancer compound. Inhibits ERK1/2, JNK, and NF-kappaB activation and expression of Raf-1 and Ras. Anti-proliferative compound. Anti-inflammatory and immunosuppressive. Anti-apoptotic compound in hepatocytes. Antioxidant. Antidiabetic. Enhances hepatic and plasma glucose metabolism and increases insulin secretion in type 2 diabetic mice. Inhibits angiogenesis by blocking STAT3 and VEGF expression. Neuroprotective. PI3K Class I, MKK3/6 and MKK4 inhibitor.
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## Solubility & Handling

<b>Storage instructions</b>	+4°C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

<b>Chemical name</b>	5,7-Dihydroxy-3',4',6-trimethoxyflavone
<b>Molecular Weight</b>	344.3
<b>Chemical structure</b>	 The chemical structure of Eupatilin is a flavone derivative. It consists of a central 2H-chromene ring system with a hydroxyl group (OH) at position 3 and a carbonyl group (C=O) at position 2. At position 4, there is a methoxy group (-OCH <sub>3</sub> ). At position 6, there is another methoxy group (-OCH <sub>3</sub> ). At position 7, there is a hydroxyl group (OH).
<b>CAS Number</b>	22368-21-4
<b>PubChem identifier</b>	0
<b>SMILES</b>	COc1ccc(cc1OC)C2=CC(=O)c3c(O)c(OC)c(O)cc3O2
<b>InChiKey</b>	DRRWBCNQOKKKOL-UHFFFAOYSA-N
<b>Appearance</b>	Pale yellow powder