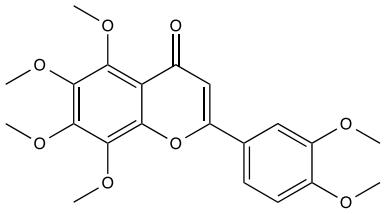
Catalog # 10-4763

Nobiletin

CAS# 478-01-3

3',4',5,6,7,8-Hexamethoxyflavone

Lot # FBA4020



Nobiletin is a natural product isolated from citrus peels. It has recently been shown to possess circadian clock amplitude-enhancing properties and was able to prevent metabolic syndrome in mice *via* a *Clock* gene-dependent mechanism.[1] Nobiletin directly bound to and activated RORα/γ. Nobiletin has previously been shown to attenuate the effects of metabolic syndrome[2], have anti-neuroinflammatory effects[3], possess neurotrophic activity[4], and be a cancer chemopreventative agent[5].

1) He *et al*. (2016), *The Small Molecule Nobiletin Targets the Molecular Oscillator to Enhance Circadian Rhythms and Protect against Metabolic Syndrome*; Cell Metabolism, **23** 610
2) Mulvihill *et al*. (2011), *Nobiletin attenuates VLDL overproduction, dyslipidemia, and atherosclerosis in mice with diet-induced insulin resistance;* Diabetes **60** 1446
3) Cui *et al*. (2010), *Anti-neuroinflammatory activity of nobiletin on suppression of microglial activation*; Biol.Pharm.Bull., **33** 1814
4) Nagase *et al.* (2005), *Mechanism of neurotrophic action of nobiletin in PC12D cells*; Biochemistry **44** 13683
5) Walle (2007), *Methoxylated flavones,a superior cancer chemopreventative flavonoid subclass?;* Semin.Cancer Biol. **17 354**

PHYSICAL DATA

Molecular Weight:	402.39
Molecular Formula:	$C_{21}H_{22}O_8$
Purity:	99% by HPLC NMR: (Conforms)
Solubility:	DMSO (10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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