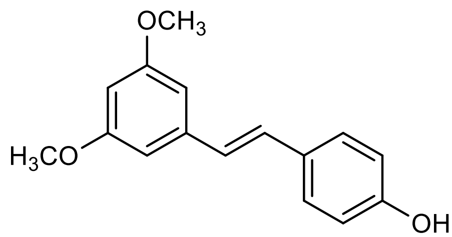
Catalog # 10-2367
Pterostilbene

537-42-8
3,5-Dimethoxy-4'-hydroxystilbene
4-[(1E)-2-(3,5-Dimethoxyphenyl)ethyl]phenol
Lot # X106555



A naturally occurring stilbenoid related to resveratrol. Displays antiproliferative activity. Induces accumulation of autophagic vacuoles followed by cell death in HL60 cells[1]. Displays protective effects against free radical-mediated oxidative damage[2]. Produces anti-inflammatory effects by down-regulating the activity of TNFα[3]. Activates AMPK[4].

1) Siedlecka-Kroplewska *et al*. (2013), *Pterostilbene induces accumulation of autophagic vacuoles followed by cell death in HL60 human leukemia cells*; J. Physiol. Phamracol., **64** 545
2) Acharya *et al*. (2013), *Protective effect of Pterostilbene against free radical mediated oxidative damage*; BMC Complernt Altern. Med., **13** 238
3) McCormack *et al*. (2012), *Pterostilbene ameliorates tumor necrosis factor alpha-induced pancreatitis in vitro*; Infect. J. Surg. Res., **178** 28
4) Lin *et al*. (2012), *Activation of AMPK by pterostilbene suppresses lipogensis and cell-cycle progression in p53 positive and negative human prostate cancer cells;* J. Agric. Food Chem., **60** 6399

PHYSICAL DATA

Molecular Weight:	256.28
Molecular Formula:	$C_{16}H_{16}O_3$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml), Ethanol (up to 50 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 week.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com