

**Catalog # 10-3193**

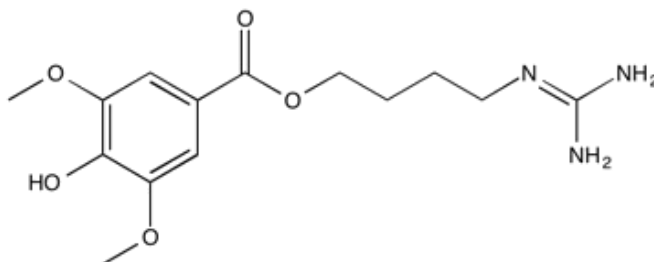
**Leonurine**

CAS# 24697-74-3

4-guanidinobutyl 4-hydroxy-3,5-dimethoxybenzoate

SCM-198

Lot # X106524



Inhibits microglial overactivation and attenuates A $\beta$ (1-40)-induced cognitive impairments in rats via JNK and NF- $\kappa$ B pathways.<sup>1</sup> Inhibits the formation of advanced glycation end products.<sup>2</sup> Ameliorates cognitive dysfunction by antagonizing excitotoxic glutamate insults and inhibiting autophagy.<sup>3</sup> Attenuates myocardial fibrotic response via inhibition of NADPH oxidase 4.<sup>4</sup> Attenuates early atherosclerotic lesions in hypercholesterolemic rabbits via modulation of the inflammatory and oxidative stress pathways.<sup>5</sup>

- 1) Hong *et al.* (2014), *SCM-198 inhibits microglial overactivation and attenuates AB(1-40)-induced cognitive impairments in rats via JNK and NF- $\kappa$ B pathways*; J. Neuroinflammation, **11** 147
- 2) Huang *et al.* (2015), *Inhibitory effect of leonurine on the formation of advanced glycation end products*; Food Funct., **6** 584
- 3) Liu *et al.* (2016), *Leonurine ameliorates cognitive dysfunction via antagonizing excitotoxic glutamate insults and inhibiting autophagy*; Phytomedicine, **23** 1638
- 4) Liu *et al.* (2013), *Leonurine (SCM-198) attenuates myocardial fibrotic response via inhibition of NADPH oxidase 4*; Free Radic. Biol. Med., **54** 93
- 5) Zhang *et al.* (2012), *SCM-198 attenuates early atherosclerotic lesions in hypercholesterolemic rabbits via modulations of the inflammatory and oxidative stress pathways*; Atherosclerosis, **224** 43

**PHYSICAL DATA**

Molecular Weight:	311.33
Molecular Formula:	C <sub>14</sub> H <sub>21</sub> N <sub>3</sub> O <sub>5</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 30 mg/ml)
Physical Description:	White 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 month.

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