

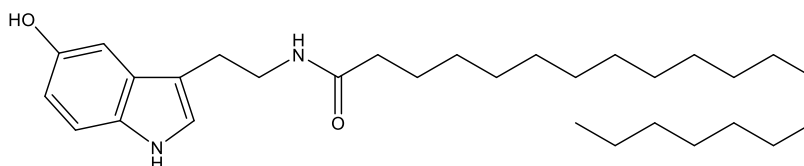
**Catalog # 10-3631**

**N-Eicosanoyl serotonin**

Eicosanoyl-5-hydroxytryptamide

Eicosanoyl serotonin, EHT

Lot # S105017



A natural product found in coffee which synergizes with caffeine in protecting the brain in models of  $\alpha$ -synucleinopathy<sup>1</sup>. It inhibits the PP2A methyltransferase maintaining PP2A in a highly active state leading to hypophosphorylated  $\alpha$ -synuclein. In mouse models it preserved neuronal integrity and function, diminished neuroinflammation and improved behavioral performance. It prevents A $\beta$ -induced impairments in mouse models of Alzheimer's disease<sup>2,3</sup>.

- 1) Yan *et al.* (2018), *Synergistic neuroprotection by coffee components eicosanoyl-5-hydroxytryptamide and caffeine in models of Parkinson's disease and DLB*; Proc. Natl. Acad. Sci. USA, **115** E12053
- 2) Asam *et al.* (2017), *Eicosanoyl-5-hydroxytryptamide (EHT) prevents Alzheimer's disease-related cognitive and electrophysiological impairments in mice exposed to elevated concentrations of oligomeric beta-amyloid*; PLoS One, **12** e0189413
- 3) Basurto-Islas *et al.* (2014), *Therapeutic benefits of a component of coffee in a rat model of Alzheimer's disease*; Neurobiol. Aging, **35** 2701

**PHYSICAL DATA**

Molecular Weight:	470.73
Molecular Formula:	C <sub>30</sub> H <sub>50</sub> N <sub>2</sub> O <sub>2</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml) or Ethanol (up to 20 mg/ml with warming)
Physical Description:	Beige 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 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**