



LKT Laboratories, Inc.

Yangonin

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Product Information

Product ID Y0052

CAS No. 500-62-9

Chemical Name (E)-4-Methoxy-6-[2-(4-methoxyphenyl)ethenyl]-2H-pyran-2-one

Synonym 4-Methoxy-6-(β-(p-anisyl)vinyl)-α-pyrone

Formula C₁₅H₁₄O₄

Formula Wt. 258.27

Melting Point 155-157 °C

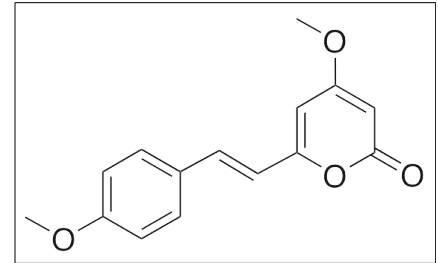
Purity ≥98%

Solubility Practically insoluble in water.
Soluble in hot ethanol (2 mg/mL), DMSO (10 mg/mL), ethyl acetate and acetone.
Slightly soluble in benzene or

Store Temp -20 °C

Ship Temp Ambient

Description Yangonin is a dienolide kavalactone originally found in *Piper methysticum* (kava plant). Yangonin exhibits neuroprotective, neuromodulatory, and antifungal activities. Yangonin activates cannabinoid (CB1) receptors and potentiates the effects of GABA-A receptors. Additionally, yangonin also activates Nrf2 in neurons and astroglia, protecting against amyloid-β (Aβ)-induced neurotoxicity. This compound displays antimicrobial efficacy against species of *Fusarium*, *Trichoderma*, and *Colletotrichum*.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
Y0052	5 mg	\$205.70
Y0052	10 mg	\$317.80

References Ligresti A, Villano R, Allarà M, et al. Kavalactones and the endocannabinoid system: the plant-derived yangonin is a novel CB1 receptor ligand. *Pharmacol Res.* 2012 Aug;66(2):163-9. PMID: 22525682.

Wruck CJ, Götz ME, Herdegen T, et al. Kavalactones protect neural cells against amyloid beta peptide-induced neurotoxicity via extracellular signal-regulated kinase 1/2-dependent nuclear factor erythroid 2-related factor 2 activation. *Mol Pharmacol.* 2008 Jun;73(6):1785-95. PMID: 18334601.

Xuan TD, Elzaawely AA, Fukuta M, et al. Herbicidal and Fungicidal Activities of Lactones in Kava (*Piper methysticum*). *J Agric Food Chem.* 2006 Feb 8;54(3):720-5. PMID: 16448174.

Boonen G, Häberlein H. Influence of genuine kavapyrone enantiomers on the GABA-A binding site. *Planta Med.* 1998 Aug;64(6):504-6. PMID: 9776662.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.