



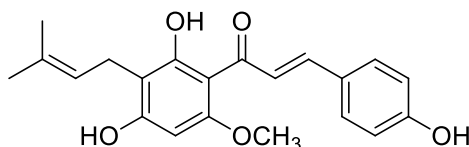
Catalog # 10-1188

Xanthohumol

CAS# 6754-58-1

(2E)-1-[2,4-Dihydroxy-6-methoxy-3-(3-methyl-2-buten-1-yl)phenyl]-3-(4-hydroxyphenyl)-2-propen-1-one

Lot # A105380



Binds to the N-terminal domain of valosin-containing protein (VCP), an essential protein for autophagosome maturation. Xanthohumol inhibits the function of VCP thereby impairing autophagosome maturation and resulting in accumulation of the microtubule-associated protein 1 light chain 3-II (LC3-II)¹. Impairs prostate cancer cell growth and proliferation². Cell permeable.

- 1) Sasazawa *et al.* (2012), *Xanthohumol impairs autophagosome maturation through direct inhibition of valosin-containing protein*; ACS Chem. Biol., **7** 892
- 2) Vene *et al.* (2012), *Xanthohumol impairs prostate cancer cell growth and invasion and diminishes the incidence and progression of advanced tumors in TRAMP mice*; Mol. Med., **18** 1292

PHYSICAL DATA

Molecular Weight:	354.41
Molecular Formula:	C ₂₁ H ₂₂ O ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml) or Ethanol (up to 35 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at room -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.

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