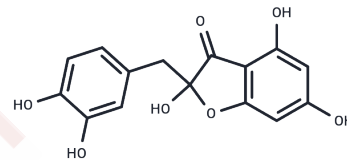


## Alphitonin

## Chemical Properties

CAS No. :	493-36-7
Formula:	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>
Molecular Weight:	304.25
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Alphitonin is a flavonoid that has been found in <i>L. leptolepis</i> wood. <sup>1</sup> It is also a metabolic intermediate that is formed during the catabolism of quercetin by the human gut bacteria <i>E. ramulus</i> . <sup>2,3</sup>
Targets(IC50)	Others, Drug Metabolite

## Solubility Information

Solubility	DMF: Soluble Methanol: Soluble Ethanol: Soluble DMSO: Soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2868 mL	16.4339 mL	32.8677 mL
5 mM	0.6574 mL	3.2868 mL	6.5735 mL
10 mM	0.3287 mL	1.6434 mL	3.2868 mL
50 mM	0.0657 mL	0.3287 mL	0.6574 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Chen, K., Ohmura, W., Doi, S., et al. Termite feeding deterrent from Japanese larch wood. *Bioresour. Technol.* 95(2), 129-134 (2004).
- Takahama U, Ito Y, Yanase E, et al. Formation of quercetin from taxifolin and quercetin 7-O-glucoside from taxifolin 7-O-glucoside by cooking sorghum grains: Possible mechanisms of their formation. *Food Chemistry Advances.* 2024, 4: 100740.
- Braune, A., Gütschow, M., Engst, W., et al. Degradation of quercetin and luteolin by *Eubacterium ramulus*. *Appl. Environ. Microbiol.* 67(12), 5558-55567 (2001).
- Jaganath, I.B., Mullen, W., Lean, M.E.J., et al. In vitro catabolism of rutin by human fecal bacteria and the antioxidant capacity of its catabolites. *Free Radic. Biol. Med.* 47(8), 1180-1189 (2009).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286    E\_mail: info@targetmol.com    Address: 34 Washington Street, Wellesley Hills, MA 02481