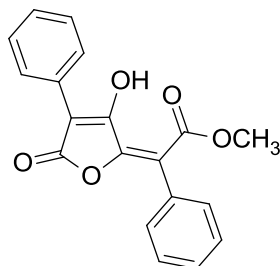


Vulpinic acid

Code No.: **BIA-V1677**

Pack sizes: **5 mg, 25 mg**



Synonyms : Vulpic acid; Methylpulvinic acid

Specifications

CAS #	: 521-52-8
Molecular Formula	: C ₁₉ H ₁₄ O ₅
Molecular Weight	: 322.3
Source	: <i>Letharia sp.</i>
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Vulpinic acid is the methyl ester of pulvinic acid. It is present in many lichen species and was originally isolated from *Letharia vulpine* (wolf lichen) in the 19th century with its structure elucidated in the early part of the 20th century. Vulpinic acid exhibits antibacterial, antitumor, anti-inflammatory and plant growth regulation activity, along with a diverse range of other activities.

References

1. Uber die Konstitution und Konfiguration der Pulvinsäuren und Vulpinsäuren. Karrer P. et al., *Helv. Chima. Acta*, 1926, 9, 446.
2. Antibacterial and antiproliferative activities of vulpinic acids in vitro. Nadir M.T. et al., *Farmaco* 1992, 47, 643.
3. Growth retarding activity of lichen substances against the polyphagous herbivorous insect *Spodoptera littoralis*. Giez I. et al., *Biochem. System. Ecol.* 1994, 22, 113.
4. In vitro activities of the lichen secondary metabolites vulpinic acid, (+)-usnic acid, and (-)-usnic acid against aerobic and anaerobic microorganisms. Lauterwein M. et al., *Antimicrob. Agent Chemother.* 1995, 39, 254.
5. Lichen acids as uncouplers of oxidative phosphorylation of mouse-liver mitochondria. Abo-Khatwa A.N. et al., *Natural Toxins* 1996, 4, 96.