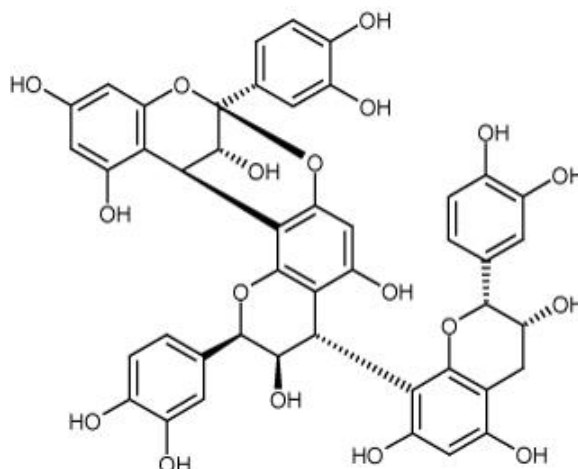


PRODUCT DATA SHEET

ALX-350-365

Cinnamtannin B-1

[Epicatechin-(4 β →8,2 β →O→7)-epicatechin-(4 α →8)-epicatechin]



Product Number/Sizes

ALX-350-365-M005

5 mg

Product Specifications

FORMULA:

C₄₅H₃₆O₁₈

MW:

864.7

CAS NUMBER:

88082-60-4

SOURCE/HOST:

Isolated from *Laurus nobilis* L.

PURITY:

≥90% (¹H-NMR)

APPEARANCE:

Brown solid.

SOLUBILITY:

Soluble in 100% ethanol, methanol or in a mixture of DMSO and water.

SHIPPING:

AMBIENT

LONG TERM STORAGE:

-20°C

HANDLING:

Protect from light. Keep under inert gas.

Product Description

A-type proanthocyanidin contained in several plant species such as *Laurus nobilis* L., *Vaccinium vitis-idaea*, *Parameria laevigata*, *Cinnamomum zeylanicum* and *Lindera umbellata*. Has potent antioxidant activity. Protective agent against oxidative stress and apoptosis in human platelets. Reduces hyperaggregability in platelets from type 2 diabetic patients.

Product Specific Literature References

Pharmacological Studies on Linderae umbellatae Ramus, IV. Effects of condensed tannin related compounds on peptic activity and stress-induced gastric lesions in mice:* N. Ezaki, et al.; *Planta Med.* **51**, 34 (1985)

Antitumor agents, 129. Tannins and related compounds as selective cytotoxic agents: Y. Kashiwada, et al.; *J. Nat. Prod.* **55**, 1033 (1992)

Antioxidant activity of tannin components from Vaccinium vitis-idaea L.: K.Y. Ho, et al.; *J. Pharm. Pharmacol.* **51**, 1075 (1999)

Studies on the constituents of bark of Parameria laevigata Moldenke: K. Kamiya, et al.; *Chem. Pharm. Bull.* **49**, 551 (2001)

Cinnamtannin B1 activity on adipocytes formation: M. Taher, et al.; *Med. J. Malaysia* **59**, 97 (2004)

Phenolic constituents in the fruits of Cinnamomum zeylanicum and their antioxidant activity: G.K. Jayaprakasha, et al.; *J. Agric. Food Chem.* **54**, 1672 (2006)

Characterization of the intracellular mechanisms involved in the antiaggregant properties of cinnamtannin B-1 from bay wood in human platelets: N. Ben Amor, et al.; *J. Med. Chem.* **50**, 3937 (2007)

Cinnamtannin B-1 from bay wood exhibits antiapoptotic effects in human platelets: A. Bouaziz, et al.; *Apoptosis* **12**, 489 (2007)

Cinnamtannin B-1 from bay wood reduces abnormal intracellular Ca²⁺ homeostasis and platelet hyperaggregability in type 2 diabetes mellitus patients: A. Bouaziz, et al.; *Arch. Biochem. Biophys.* **457**, 235 (2007)

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