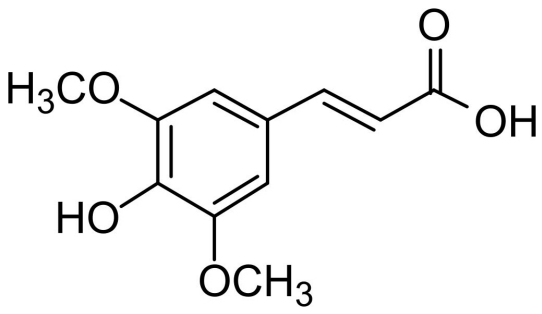
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Code No.: BIA-S1730

Pack sizes.: 5mg, 25mg

Sinapic acid



Synonyms:
3,5-Dimethoxy-4-hydroxycinnamic acid; 4-Hydroxy-3,5-dimethoxycinnamic acid; NSC 59261; Sinapinic acid; Synapitic acid

Specifications

CAS #	**: 530-59-6**
Molecular Formula	**: C11H12O5**
Molecular Weight	**: 224.21**
Source	**: -**
Appearance	**: White solid**
Purity	**: >95% by HPLC**
Long Term Storage	**: -20°C**
Solubility	**: Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Sinapic acid is a common plant metabolite biosynthetically formed by degradation of lignin and lignocellulose. Sinapic acid is a member of the phenylpropanoid class of lignin biosynthetic precursors. The biochemical and pharmacological activity of sinapic acid has > 4,000 SciFinder entries and the area is well reviewed by Guzman (2014) and Sharma (2011). Sinapic acid is a useful standard for analytical and bioassay dereplication as a metabolite commonly encountered in microbial fermentations.

References

1. Regulation of the production of hemicellulolytic and cellulolytic enzymes by a Streptomyces sp. growing on lignocellulose. Godden B. et al., J. Gen. Microbiol. 1989, 135, 285.
2. Potential of endophytic fungus Phomopsis liquidambari for transformation and degradation of recalcitrant pollutant sinapic acid. Xie X-G. et al., Fungal Biol. 2016, 120, 402.
3. Solid-state fermentation of rapeseed meal with the white-rot fungi Trametes versicolor and Pleurotus ostreatus. Zuchowski J. et al., Appl. Biochem. Biotechnol. 2013, 171, 2075.
4. Cinnamic acid derivatives: A new chapter of various pharmacological activities. Sharma P., J. Chem. Pharm.

Res. 2011, 3, 403.