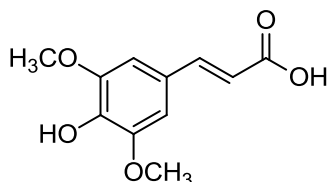


## Sinapic acid

Code No.: **BIA-S1730**

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



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 : **C<sub>11</sub>H<sub>12</sub>O<sub>5</sub>**  
Molecular Weight : **224.2**  
Source : **Synthetic**  
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. Natural cinnamic acids, synthetic derivatives and hybrids with antimicrobial activity. Guzman J.D., *Molecules* 2014, 19, 19292.
5. Cinnamic acid derivatives: A new chapter of various pharmacological activities. Sharma P., *J. Chem. Pharm. Res.* 2011, 3, 403.