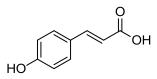


PRODUCT DATA SHEET

p-Coumaric acid

| Code No.: | BIA-C1726 |
|-----------|-----------|
| | DIA-C1/20 |

Pack sizes: 5 mg, 25 mg



Synonyms

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4-Coumaric acid; 4-Hydroxycinnamic acid; 4'-Hydroxycinnamic acid; NSC 59260; NSC 674321; p-Cumaric acid; p-Hydroxycinnamic acid; p-Hydroxyphenylacrylic acid; b-[4-Hydroxyphenyl]acrylic acid

| Specifications | | |
|-------------------|---|--|
| CAS # | : | 7400-08-0 |
| Molecular Formula | : | C ₉ H ₈ O ₃ |
| Molecular Weight | : | 164.2 |
| Source | : | Synthetic |
| Appearance | : | White solid |
| Purity | : | >95% by HPLC |
| Long Term Storage | : | -20°C |
| Solubility | : | Soluble in ethanol, methanol, DMF or DMSO. |

Application Notes

p-Coumaric acid is a common plant metabolite, biosynthetically formed by the action of tyrosine ammonia-lyase (TAL) on phenylalanine. p-Coumaric acid is a member of the phenylpropanoid class of lignin biosynthetic precursors. p-Coumaric acid is readily produced by fermentation on media containing plant extracts. The biochemical and pharmacological activity of p-coumaric acid has > 10,000 SciFinder entries and the area is well reviewed by Guzman (2014) and Sharma (2011). p-Coumaric acid a useful standard for analytical and bioassay dereplication.

References

- 1. Metabolomics-guided analysis of isocoumarin production by Streptomyces species MBT76 and biotransformation of flavonoids and phenylpropanoids. Wu C. et al., Metabolomics 2016, 12, 1.
- 2. Expanding the chemical space for natural products by Aspergillus-Streptomyces co-cultivation and biotransformation. Wu C. et al., Scientific Reports 2015, 5, 10868.
- 3. p-Hydroxycinnamic acid production directly from cellulose using endoglucanase- and tyrosine ammonia lyaseexpressing Streptomyces lividans. Kawai Y. et al., Microbial Cell Factories 2013, 12, 45.
- 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.

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