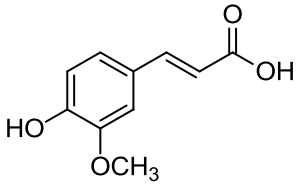
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Ferulic acid

Code No.: **BIA-F1728**

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



Synonyms : 3-Methoxy-4-hydroxycinnamic acid; 4-Hydroxy-3-methoxycinnamic acid; 4'-Hydroxy-3'-methoxycinnamic acid; Coniferic acid; Ferulaic acid; NSC 2821; NSC 51986; NSC 674320

Specifications

CAS #	:	**1135-24-6**
Molecular Formula	:	**$C_{10}H_{10}O_4$**
Molecular Weight	:	**194.2**
Source	:	**Synthetic**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Ferulic acid is a common plant metabolite, found in many grains, biosynthetically formed by degradation of lignin and lignocellulose. Ferulic acid is a member of the phenylpropanoid class of lignin biosynthetic precursors. The biochemical and pharmacological activity of ferulic acid has > 20,000 SciFinder entries and the area is well reviewed by Guzman (2014) and Sharma (2011). Ferulic acid a useful standard for analytical and bioassay dereplication as a metabolite commonly encountered in microbial fermentations.

References

1. Release of ferulic acid and feruloylated oligosaccharides from sugar beet pulp by Streptomyces tendae. Ferreira P. et al., Biores. Technol. 2007, 98, 1522.
2. A complete enzymatic recovery of ferulic acid from corn residues with extracellular enzymes from Neosartorya spinosa NRRL185. Shin H-D. et al., Biotechnol. Bioeng. 2006, 95, 1108.
3. Natural cinnamic acids, synthetic derivatives and hybrids with antimicrobial activity. Guzman J.D., Molecules 2014, 19, 19292.
4. Cinnamic acid derivatives: A new chapter of various pharmacological activities. Sharma P., J. Chem. Pharm. Res. 2011, 3, 403.

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