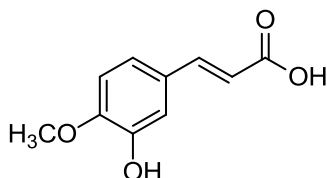


Isoferulic acid

Code No.: **BIA-I1729**

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



Synonyms : 3-Hydroxy-4-methoxycinnamic acid; 4-Methoxycaffeic acid; 4-O-Methylcaffeic acid; Hesperetic acid; NSC 51987

Specifications

CAS # : **537-73-5**
Molecular Formula : **C₁₀H₁₀O₄**
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

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

References

1. Biosynthesis of phenolic acids by certain wood-destroying Basidiomycetes. Power D.M. et al., Can. J. Biochem. Physiol. 1965, 43, 1397.
2. Natural cinnamic acids, synthetic derivatives and hybrids with antimicrobial activity. Guzman J.D., Molecules 2014, 19, 19292.
3. Cinnamic acid derivatives: A new chapter of various pharmacological activities. Sharma P., J. Chem. Pharm. Res. 2011, 3, 403.