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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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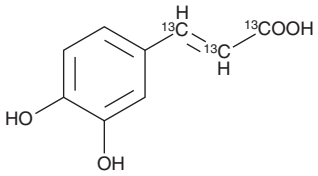
PRODUCT INFORMATION

Caffeic Acid-$^{13}C_3$

Item No. 23232

CAS Registry No.: 1185245-82-2
Formal Name: (E)-3-(3,4-dihydroxyphenyl)acrylic-$^{13}C_3$ acid
MF: $C_6[^{13}C]_3H_8O_4$
FW: 183.1
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Caffeic acid-$^{13}C_3$ is supplied as a crystalline solid. A stock solution may be made by dissolving the caffeic acid-$^{13}C_3$ in the solvent of choice. Solvents such as DMSO and methanol purged with an inert gas can be used. Caffeic acid-$^{13}C_3$ is slightly soluble in DMSO and methanol.

Description

Caffeic acid-$^{13}C_3$ is an isotopically enriched form of caffeic acid (Item No. 70602) that is intended for use as an internal standard for the quantification of caffeic acid by GC- or LC-MS. Caffeic acid is an inhibitor of 5-LO (Item No. 60402), with IC_{50} values of 3.7-72 µM, and 12-LO, with IC_{50} values of 5.1-30 µM.[1,2]

References

1. Koshihara, Y., Neichi, T., Murota, S.I., *et al.* Caffeic acid is a selective inhibitor for leukotriene biosynthesis. *Biochim Biophys. Acta.* **792(1)**, 92-97 (1984).
2. Kohyama, N., Nagata, T., Fujimoto, S., *et al.* Inhibition of arachidonate lipoxygenase activities by 2-(3,4-dihydroxyphenyl)ethanol, a phenolic compound from olives. *Biosci. Biotechnol. Biochem.* **61(2)**, 347-350 (1997).

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