

## Product Data Sheet

Product Name: (E)-Ferulic acid-d3

Cat. No.: GC66371

### Chemical Properties

Cas. No. 860605-59-0

Formula  $C_{10}H_7D_3O_4$

M.Wt 197.2

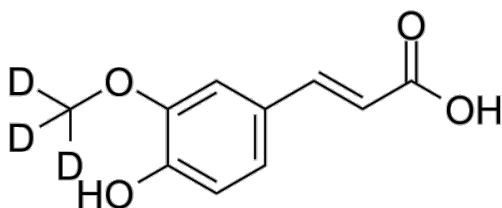
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

(E)-Ferulic acid-d3 ((E)-Coniferic acid-d3) is the deuterium labeled (E)-Ferulic acid. (E)-Ferulic acid is an isomer of Ferulic acid which is an aromatic compound, abundant in plant cell walls. (E)-Ferulic acid causes the phosphorylation of  $\beta$ -catenin, resulting in proteasomal degradation of  **$\beta$ -catenin** and increases the expression of pro-apoptotic factor **Bax** and decreases the expression of pro-survival factor survivin. (E)-Ferulic acid shows a potent ability to remove reactive oxygen species (ROS) and inhibits lipid peroxidation. (E)-Ferulic acid exerts both anti-proliferation and anti-migration effects in the human lung cancer cell line H1299<sup>[1]</sup>.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.

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