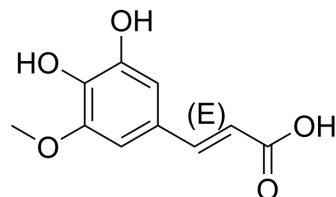


(E)-5-Hydroxyferulic acid

Cat. No.:	HY-133068A
CAS No.:	110642-42-7
Molecular Formula:	C ₁₀ H ₁₀ O ₅
Molecular Weight:	210.18
Target:	COMT
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(E)-5-Hydroxyferulic acid is the E-isomer of [5-hydroxyferulic acid](#) (HY-133068). 5-hydroxyferulic acid is a hydroxycinnamic acid and is a metabolite of the phenylpropanoid pathway. 5-Hydroxyferulic acid is a precursor in the biosynthesis of sinapic acid and is also a COMT non-esterified substrat^{[1][2][3]}.

REFERENCES

- [1]. Parvathi K, et al. Substrate preferences of O-methyltransferases in alfalfa suggest new pathways for 3-O-methylation of monolignols. *Plant J.* 2001 Jan;25(2):193-202.
- [2]. Maury S, et al. Tobacco O-methyltransferases involved in phenylpropanoid metabolism. The different caffeoyl-coenzyme A/5-hydroxyferuloyl-coenzyme A 3/5-O-methyltransferase and caffeic acid/5-hydroxyferulic acid 3/5-O-methyltransferase classes have distinct substrate specificities and expression patterns. *Plant Physiol.* 1999 Sep;121(1):215-24.
- [3]. Inoue K, et al. Substrate preferences of caffeic acid/5-hydroxyferulic acid 3/5-O-methyltransferases in developing stems of alfalfa (*Medicago sativa* L.). *Arch Biochem Biophys.* 2000 Mar 1;375(1):175-82.

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

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