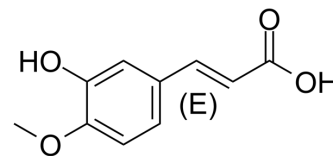


## trans-Isoferulic acid

Cat. No.:	HY-N0761A
CAS No.:	25522-33-2
Molecular Formula:	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>
Molecular Weight:	194.18
Target:	NO Synthase; Prostaglandin Receptor
Pathway:	Immunology/Inflammation; GPCR/G Protein
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### BIOLOGICAL ACTIVITY

Description	trans-Isoferulic acid (trans-3-Hydroxy-4-methoxycinnamic acid) is an aromatic acid isolated from the roots of <i>Clematis florida</i> var. <i>plena</i> . trans-Isoferulic acid exhibits anti-inflammatory activity <sup>[1]</sup> , trans-isoferulic acid suppresses NO and PGE2 production through the induction of Nrf2-dependent heme oxygenase-1 (HO-1) <sup>[2]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### REFERENCES

- [1]. Kai-Hui Sun, et al. A new indole-type alkaloid from the roots of *Clematis florida* var. *plena*. *Nat Prod Res.* 2019 Oct;33(20):2925-2931.
- [2]. Matharage Gayani Dilshara, et al. Downregulation of NO and PGE2 in LPS-stimulated BV2 microglial cells by trans-isoferulic acid via suppression of PI3K/Akt-dependent NF-κB and activation of Nrf2-mediated HO-1. *Int Immunopharmacol.* 2014 Jan;18(1):203-11.

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

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