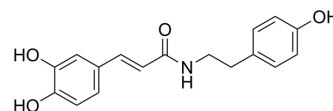


N-trans-Caffeoyltyramine

Cat. No.:	HY-N8241
CAS No.:	103188-48-3
Molecular Formula:	C ₁₇ H ₁₇ NO ₄
Molecular Weight:	299.32
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (835.23 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.3409 mL	16.7045 mL	33.4091 mL
				5 mM	0.6682 mL	3.3409 mL	6.6818 mL
				10 mM	0.3341 mL	1.6705 mL	3.3409 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	N-TRANS-CaffeoylTyramine is an effective inflammatory response regulator, which has antioxidant activity and anticoagulation effects ^[1] .
In Vitro	N-TRANS-CaffeoylTyramine (2.5-200 μm, 48 H) acts on human SH-SY5Y (SH) cell with the IC ₅₀ value of 59 μM, and it can change the Microrna expression spectrum of nerve cells, of which the MIR-199A-5P can be lowered 50% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Armando Di Palo, et al. Effect of Cannabidiolic Acid, N-Trans-Caffeoyltyramine and Cannabisin B from Hemp Seeds on microRNA Expression in Human Neural Cells. Curr Issues Mol Biol. 2022 Oct 21;44(10):5106-5116.

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

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