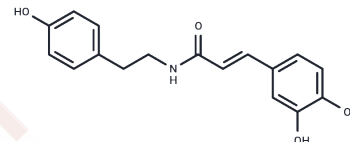


## N-trans-caffeoyltyramine

## Chemical Properties

CAS No. :	103188-48-3
Formula:	C17H17NO4
Molecular Weight:	299.32
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	N-trans-caffeoyltyramine (Trans-N-Caffeoyltyramine) is a modulator of inflammatory responses and can be used in studies about treatment for chronic inflammatory diseases.
Targets(IC50)	Reactive Oxygen Species, Immunology/Inflammation related, ROS
In vitro	N-trans-caffeoyltyramine inhibits the production of NO, TNF- $\alpha$ , IL-6 and IL-10 in the LPS-stimulated RAW 264.7 cells in a dose-dependent manner. N-trans-caffeoyltyramine markedly suppresses the expression of COX-2 and the production of prostaglandin E2 (PGE2) in response to LPS stimulation. N-trans-caffeoyltyramine markedly decreases p-c-Jun N-terminal kinase (p-JNK) protein expression in LPS-stimulated RAW 264.7 cells[1].

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (91.87 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.68 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0668 mL	0.3341 mL	0.6682 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Han-Jik Ko, Eun-Kyung Ahn, Joa Sub Oh. N-trans-p-caffeoyl tyramine isolated from Tribulus terrestris exerts anti-inflammatory effects in lipopolysaccharide-stimulated RAW 264.7 cells. International Journal of Molecular Medicine, 2015,3:1042-1048.

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