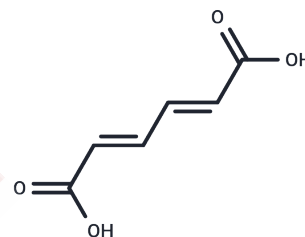


## trans-trans-Muconic acid

## Chemical Properties

CAS No. :	3588-17-8
Formula:	C <sub>6</sub> H <sub>6</sub> O <sub>4</sub>
Molecular Weight:	142.11
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	trans-trans-Muconic acid is a urinary metabolite of benzene.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 55 mg/mL (387.02 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 (14.07 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

	1mg	5mg	10mg
1 mM	7.0368 mL	35.184 mL	70.368 mL
5 mM	1.4074 mL	7.0368 mL	14.0736 mL
10 mM	0.7037 mL	3.5184 mL	7.0368 mL
50 mM	0.1407 mL	0.7037 mL	1.4074 mL

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

Soleimani E , Bahrami A , Afkhami A , et al. Determination of urinary trans,trans-muconic acid using molecularly imprinted polymer in microextraction by packed sorbent followed by liquid chromatography with ultraviolet detection[J]. Journal of Chromatography B, 2017:S1570023217308012.

Development of Hollow-Fiber Liquid-Phase Microextraction Method for Determination of Urinary trans,trans-Muconic Acid as a Biomarker of Benzene Exposure.

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