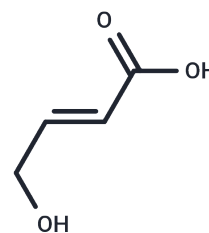


## trans-4-Hydroxycrotonic acid

## Chemical Properties

CAS No. :	24587-49-3
Formula:	C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight:	102.09
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-4-Hydroxycrotonic acid (T-HCA) is a highly selective and competitive ligand for the $\gamma$ -hydroxybutyric acid (GHB) binding site, with a $K_i$ value of 1.1 $\mu$ M for [3H]NCS-382, and can be used to study three-dimensional pharmacophore models.
Targets(IC50)	GABA Receptor

## Solubility Information

Solubility	DMSO: 140 mg/mL (1371.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.7953 mL	48.9764 mL	97.9528 mL
5 mM	1.9591 mL	9.7953 mL	19.5906 mL
10 mM	0.9795 mL	4.8976 mL	9.7953 mL
50 mM	0.1959 mL	0.9795 mL	1.9591 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

Krall J, et al. Molecular Hybridization of Potent and Selective  $\gamma$ -Hydroxybutyric Acid (GHB) Ligands: Design, Synthesis, Binding Studies, and Molecular Modeling of Novel 3-Hydroxycyclopent-1-enecarboxylic Acid (HOCPA) and trans- $\gamma$ -Hydroxycrotonic Acid (T-HCA) Analogs. J Med Chem. 2017 Nov 9;60(21):9022-9039.

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