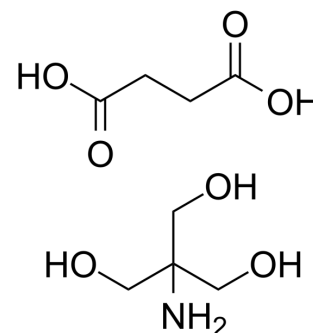


## Succinic acid tromethamine

Cat. No.:	HY-N0420A
CAS No.:	84540-64-7
Molecular Formula:	C <sub>8</sub> H <sub>17</sub> NO <sub>7</sub>
Molecular Weight:	239.22
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Succinic acid tromethamine is a potent and orally active anxiolytic agent. Succinic acid tromethamine is an intermediate product of the tricarboxylic acid cycle. Succinic acid tromethamine can be used as a precursor of many industrially important chemicals in food, chemical and pharmaceutical industries <sup>[1][2][3]</sup> .	
IC <sub>50</sub> & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	Succinic acid tromethamine is derived from the fermentation of agricultural carbohydrates <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Succinic acid tromethamine (3, 6 mg/kg; p.o.) increases the percentage of entries into open arms and of time spent on open arms in male mice <sup>[3]</sup> . Succinic acid tromethamine (3, 6, 12 mg/kg; i.p.) significant increases in food intake during 5 min, and 40 min after drug administration rectal temperature was measured, succinic acid at a dose of 1.5 mg/kg, inhibited stress-induced hyperthermia <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### CUSTOMER VALIDATION

- Cell Host Microbe. 2023 May 10;31(5):781-797.e9.
- Water Air Soil Pollut. 232, 473 (2021).

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Zhang YJ, et al. Optimization of succinic acid fermentation with *Actinobacillus succinogenes* by response surface methodology (RSM). *J Zhejiang Univ Sci B*. 2012 Feb;13(2):103-10.
- [2]. A T JOHNS, et al. The production of propionic acid by decarboxylation of succinic acid in a bacterial fermentation. *Biochem J*. 1948;42(1):ii.

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

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