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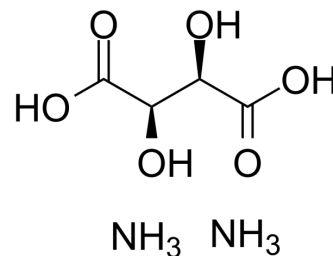
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## L-Tartaric acid diammonium

<b>Cat. No.:</b>	HY-W109973
<b>CAS No.:</b>	3164-29-2
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	184
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	L-Tartaric acid diammonium (L-(+)-tartaric acid) is an orally active weak organic acid that can be isolated from grapes. L-Tartaric acid diammonium has vasodilatory and antihypertensive effects. L-Tartaric acid diammonium can be used as flavorings and antioxidants in a range of foods and beverages. L-Tartaric acid diammonium can be used in laser frequency doubling and optical limiting applications <sup>[1][2][3][4]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite	Human Endogenous Metabolite
<b>In Vitro</b>	L-Tartaric acid (1.66-6.64 mM) significantly reduces NEP and KCL-induced aortic ring vasoconstriction with EC <sub>50</sub> values of 4.119 mM and 4.00 mM, respectively <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	L-Tartaric acid (80-240 mg/kg; P.O.; Single dose) reduces blood pressure in hypertensive mice induced by L-NAME (60 mg/kg) <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Hypertensive Wistar rat model <sup>[3]</sup>
	<b>Dosage:</b>	80 mg/kg, 240 mg/kg
	<b>Administration:</b>	Oral gavage (p.o.); Single dose. After L-NAME treatment (60.mg/kg; p.o.)
	<b>Result:</b>	Reduced systolic blood pressure (SABP) and mild blood pressure (mid-BP) in rats at a dose of 240mg/kg, but had no effect on mean artery pressure, diastolic blood pressure, pulse pressure level, and heart rate.

### REFERENCES

- [1]. Sasikala V, et al. Growth, molecular structure, NBO analysis and vibrational spectral analysis of l-tartaric acid single crystal. Spectrochim Acta A Mol Biomol Spectrosc. 2014 Apr 5;123:127-41.
- [2]. DeBolt S, et al. L-tartaric acid synthesis from vitamin C in higher plants. Proc Natl Acad Sci U S A. 2006 Apr 4;103(14):5608-13.
- [3]. Amssayef A, et al. L-Tartaric Acid Exhibits Antihypertensive and Vasorelaxant Effects: The Possible Role of eNOS/NO/cGMP Pathways. Cardiovasc Hematol Agents Med

[4]. EFSA Panel on Food Additives and Flavourings (FAF); Younes M, et al. Re-evaluation of l(+)-tartaric acid (E 334), sodium tartrates (E 335), potassium tartrates (E 336), potassium sodium tartrate (E 337) and calcium tartrate (E 354) as food additives. EFSA J. 2020 Mar 11;18(3):e06030.

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

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