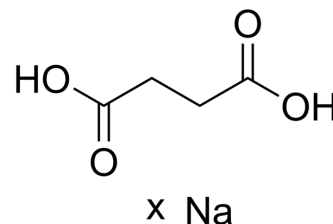


## Succinic acid sodium

<b>Cat. No.:</b>	HY-W396714
<b>CAS No.:</b>	14047-56-4
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> ·xNa
<b>Target:</b>	Potassium Channel; TET Protein
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Succinic acid sodium is a potent and orally active anxiolytic agent. Succinic acid sodium shows inhibitory effects on colonic epithelial cell proliferation in vivo. Succinic acid sodium can down-regulate the expression of KCNMB1 (potassium channel subunit β1) and TET1 (tenEleven translocation 1). Succinic acid sodium can be used for gestational hypertension research [1][2][3].
<b>IC<sub>50</sub> &amp; Target</b>	TET1
<b>In Vivo</b>	<p>Succinic acid sodium (3.0 or 6.0 mg/kg, PO) increased the percentage of entries into open arms and of time spent on open arms<sup>[1]</sup>.</p> <p>succinic acid (3.0, 6.0, and 12.0 mg/kg, IP) caused significant increases in food intake during 5 min when compared with the vehicle<sup>[1]</sup>.</p> <p>Succinic acid sodium (100 mM) infused into rat colons significantly inhibits colonic cell proliferation and reduced crypt size [2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Chen SW, Xin Q, Kong WX, Min L, Li JF. Anxiolytic-like effect of succinic acid in mice. *Life Sci.* 2003 Nov 7;73(25):3257-64.
- [2]. Inagaki A, et al. Inhibitory effect of succinic acid on epithelial cell proliferation of colonic mucosa in rats. *J Nutr Sci Vitaminol (Tokyo)*. 2007 Aug;53(4):377-9.
- [3]. Zhou Y, et al. Fumaric acid and succinic acid treat gestational hypertension by downregulating the expression of KCNMB1 and TET1. *Exp Ther Med.* 2021 Oct;22(4):1072.

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

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