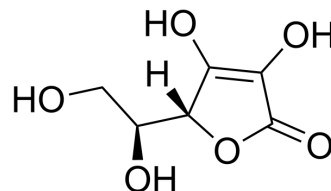


## L-Ascorbic acid (GMP)

Cat. No.:	HY-B0166G
CAS No.:	50-81-7
Molecular Formula:	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
Molecular Weight:	176.12
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	L-Ascorbic acid (L-Ascorbate) (GMP) is <a href="#">L-Ascorbic acid</a> (HY-B0166) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. L-Ascorbic acid is an inhibitor of Ca <sub>v</sub> 3.2 channels [1].
<b>In Vitro</b>	L-Ascorbic acid (GMP) (25-200 µg/mL) induces chondrogenic differentiation of adipose-derived mesenchymal stem cells <sup>[1]</sup> . L-Ascorbic acid (GMP) (250 µM; 10 d) induces osteogenic differentiation of mesenchymal stem cells (MSCs) <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nat Immunol. 2022 Dec 21.
- Redox Biol. 2022 Aug;54:102392.
- Sci China Life Sci. 2018 Oct;61(10):1151-1167.
- Biomed Pharmacother. September 2022, 113558.
- Free Radic Biol Med. 2020 Feb 1;147:220-230.

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

### REFERENCES

- [1]. Barlian A, et al. Chondrogenic differentiation of Wharton's Jelly mesenchymal stem cells on silk spideroin-fibroin mix scaffold supplemented with L-ascorbic acid and platelet rich plasma. Sci Rep. 2020 Nov 10;10(1):19449.
- [2]. Mekala NK, et al. Enhanced proliferation and osteogenic differentiation of human umbilical cord blood stem cells by L-ascorbic acid, in vitro. Curr Stem Cell Res Ther. 2013 Mar;8(2):156-62.

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

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