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# Produktinformation

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- Diagnostik & molekulare Diagnostik
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## Lieferung & Zahlungsart

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## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# L-Ascorbic acid (GMP)

**Cat. No.:** HY-B0166G

**CAS No.:** 50-81-7

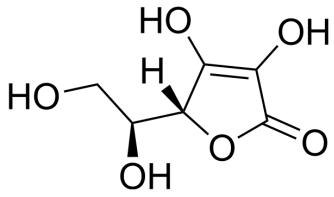
**Molecular Formula:** $C_6H_8O_6$

**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

| | |
|---|---|
| **Description** | L-Ascorbic acid (L-Ascorbate) (GMP) is L-Ascorbic acid (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 $Ca_V$ 3.2 channels [1]. |
| **In Vitro** | L-Ascorbic acid (GMP) (25-200 μg/mL) induces chondrogenic differentiation of adipose-derived mesenchymal stem cells[1].<br>L-Ascorbic acid (GMP) (250 μM; 10 d) induces osteogenic differentiation of mesenchymal stem cells (MSCs)[2].<br>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

## REFERENCES

[1]. Barlian A, et al. Chondrogenic differentiation of Wharton's Jelly mesenchymal stem cells on silk spidroin-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.

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

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