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Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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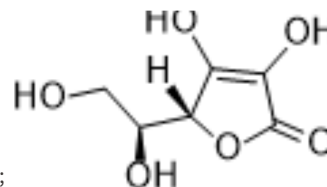
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L-Ascorbic acid (GMP)

Cat. No.:	HY-B0166G
CAS No.:	50-81-7
Molecular Formula:	C ₆ H ₈ O ₆
Molecular Weight:	176.12
Target:	Calcium Channel; Reactive Oxygen Species; Apoptosis; Endogenous Metabolite
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis
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] . L-Ascorbic acid (GMP) (250 μM; 10 d) induces osteogenic differentiation of mesenchymal stem cells (MSCs) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Cell. 2024 Apr 8;42(4):682-700.e12.
- Nat Immunol. 2022 Dec 21.
- Cell Host Microbe. 2024 Dec 12:S1931-3128(24)00444-X.
- Mil Med Res. 2020 Nov 1;7(1):52.
- Biomaterials. 2024 Aug 15:313:122756.

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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