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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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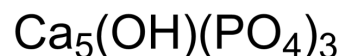
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Hydroxylapatite (<50 nm)

Cat. No.:	HY-D0835A
CAS No.:	1306-06-5
Molecular Formula:	Ca ₅ HO ₁₃ P ₃
Molecular Weight:	502.31
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Hydroxylapatite (Hydroxyapatite) (<50 nm) is a natural form of calcium phosphate and is the main mineral component of bones and teeth. Hydroxylapatite (<50 nm) can stimulate the expression and secretion of collagen in primary human dermal fibroblasts. Hydroxylapatite (<50 nm) has good biocompatibility, bioactivity, and bone conductivity, making it suitable for targeted drug or nucleic acid delivery. Hydroxylapatite (<50 nm) can be used in research on osteoarthritis, gout, and atherosclerosis ^{[1][2]} .
In Vitro	Hydroxylapatite is suspended in 0.2 µm filtered purified water, sonicated and vortexed for 5 min and collected by centrifugation at 16,000 g for 1 min. The procedure was repeated five times to wash the Hydroxylapatite particles and a 40 mg/mL stock suspension was prepared in 0.1 M NaCl before administering to cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Rakshit M, et al. Hydroxyapatite Particles Induced Modulation of Collagen Expression and Secretion in Primary Human Dermal Fibroblasts. *Int J Nanomedicine*. 2020 Jul 13;15:4943-4956.
- [2]. Yongjia Liu, et al. Hydroxyapatite-Bovine Serum Albumin-Paclitaxel Nanoparticles for Locoregional Treatment of Osteosarcoma. *Adv Healthc Mater*. 2020 Nov 9;e2000573.

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

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