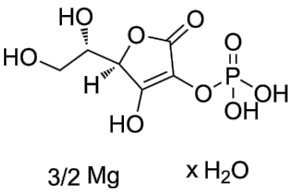


L-Ascorbic acid 2-phosphate magnesium hydrate

货号: B27597



产品信息

生物活性	L-ascorbic acid 2-phosphate (2-Phospho-L-ascorbic acid) magnesium hydrate is a long-acting vitamin C derivative that can stimulate collagen formation and expression. L-ascorbic acid 2-phosphate magnesium hydrate can be used as a culture medium supplement for the osteogenic differentiation of human adipose stem cells (hASCs). L-ascorbic acid 2-phosphate magnesium hydrate increases alkaline phosphatase (ALP) activity and expression of runx2A in hASCs during the osteogenic differentiation.
CAS	1713265-25-8
中文名称	
分子量	
体外研究	<p>L-Ascorbic acid 2-phosphate (0.1-1.5 mM; 2 to 3 weeks with medium exchange every 2 to 3 days) magnesium hydrate significantly stimulates cell growth, whereas addition of l-Ascorbic acid (Asc) achieves only weak growth stimulation. A combination of Asc-2P and bFGF significantly increases cell growth, but supplementation with EGF and/or insulin does not have any additional effect . L-Ascorbic acid 2-phosphate (50 μM-250 μM) magnesium hydrate is needed for the effective osteogenic differentiation of human adipose stem cells (hASCs), and higher concentrations of AsA2-P results in increased runx2 expression and ALP activity. The highest proliferation, ALP activity and runx2 expression is achieved with 150 μM AsA2-P and 10 nM dexamethasone (Dex), and 250 μM AsA2-P and 5 nM Dex.</p> <p>The accuracy of these methods have not been independently confirmed. They are for reference only.</p> <p>Cell Proliferation Assay</p> <p>Cell Line: Human corneal endothelial cells (HCECs)</p> <p>Concentration: 0.1 mM; 0.3 mM; 1.5 mM</p> <p>Incubation Time: 2 to 3 weeks with medium exchange every 2 to 3 days</p> <p>Result: Stimulated HCEC cells growth.</p>
体内研究	
形式	
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	Please store the product under the recommended conditions in the Certificate of Analysis.
溶解性	
纯度	