

Ascorbic Acid

Cell culture supplement

Catalog # 07157

100 mg



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Product Description

Ascorbic Acid has been developed to improve the yield of neural cells during the final stages of mouse embryonic stem (ES) cell in vitro differentiation into neural cell types. This product is also part of the MesenCult™ Osteogenic Stimulatory Kit (Human; Catalog #05404) used to stimulate the differentiation of human mesenchymal stem cells into osteogenic cells in culture.

Properties

Storage: Store at 15 - 25°C.

Shelf Life: Not applicable.

Handling / Directions For Use

NOTE: When dissolved in solution, protect Ascorbic Acid from light and exposure to air to prevent oxidation.

For ES-Cult™:

Prepare a 0.02 M solution of Ascorbic Acid by adding 28.4 mL of sterile water to the amber bottle of ascorbic acid. Mix well, store at room temperature (15 - 25°C), and protect from light and exposure to air. This provides a 100X stock solution and should be added freshly at each feed to the ES-Cult™ Basal Medium-A (Catalog #05801) for a final concentration of 200 µM.

For MesenCult™:

Ascorbic Acid is required for the preparation of complete MesenCult™ Osteogenic Stimulatory Medium (Human). A final concentration of 50 µg/mL is recommended.

References

Lee S-HH et al. (2000) Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells. *Nat Biotechnol* 18(6): 675–9.

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