Nicotinamide

For pancreatic differentiation of mouse ES and iPS cells

Catalog # 07154 100 g

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Product Description

Nicotinamide has been developed for use with the ES-Cult™ Basal Medium-A (Catalog #05801) and N2 Supplement-A (Catalog #07152). It is used to improve the yield of pancreatic endocrine cells during the final stages of mouse embryonic stem (ES) cell and mouse induced pluripotent stem (iPS) cell in vitro differentiation into pancreatic islet-like insulin secreting cells.

Properties

Storage: Store at 15 - 25°C.
Shelf Life: Not applicable.

Please refer to the Safety Data Sheet (SDS) for hazard information.

Handling / Directions For Use

1. Prepare a 1 M solution of Nicotinamide by dissolving 0.122 g per mL of sterile water. This provides a 100X stock solution.
   NOTE: If not used immediately, store at -20°C for up to 1 month.
2. Add the 100X stock solution to ES-Cult™ Basal Medium-A at a final concentration of 10 mM.

References

Lumelsky N et al. (2001) Differentiation of embryonic stem cells to insulin-secreting structures similar to pancreatic islets. Science 292(5520): 1389–94.
Otonkoski T et al. (1993) Nicotinamide is a potent inducer of endocrine differentiation in cultured human fetal pancreatic cells. J Clin Invest 92(3): 1459–66.