Nicotinamide

Cell culture supplement for differentiation of ES and iPS cells

Catalog # 07154 100 g

Product Description
Nicotinamide (NAM) is a cell culture supplement used in the differentiation of embryonic stem (ES) and induced pluripotent stem (iPS) cells. It is an amide derivative of vitamin B3, a poly (ADP-ribose) polymerase (PARP) inhibitor, and represents the primary precursor of NAD⁺. Nicotinamide has also been shown to modulate stem cell differentiation in various applications, most notably for the differentiation of pancreatic mouse ES and iPS cells to 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
Use as directed in the protocol of choice.

Structure:

![Chemical Structure of Nicotinamide](structure_image)

- **Chemical Formula:** C₆H₆N₂O
- **Molecular Weight:** 122.12 g/mol

References
Meng et al. (2017) Nicotinamide promotes cell survival and differentiation as kinase inhibitor in human pluripotent stem cells. Stem Cell Reports 11: 1347–56.