

Nicotinamide

Cell culture supplement for differentiation of ES and iPS cells

Catalog # 07154

100 g



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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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.

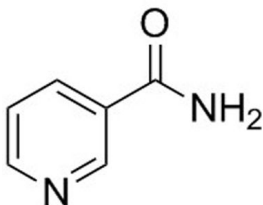
Shelf Life: Not applicable.

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 Formula: C₆H₆N₂O

Molecular Weight: 122.12 g/mol

References

Lumelsky N et al. (2001) Differentiation of embryonic stem cells to insulin-secreting structures similar to pancreatic islets. *Science* 292(5520): 1389–94.

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

Saldeen J et al. (2003) Nicotinamide- and caspase-mediated inhibition of poly(ADP-ribose) polymerase are associated with p53-independent cell cycle (G2) arrest and apoptosis. *Mol Cell Biochem* 243(1–2): 113–22.

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