

Product Information

N-Acetylmannosamine Dehydrogenase (ManNAcDH) from *Flavobacterium sp.*

Recombinant form expressed in *Escherichia coli*

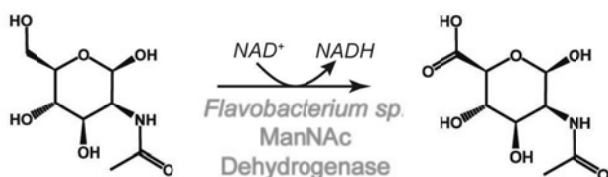
Catalogue Number MNFS

EC 1.1.1.233

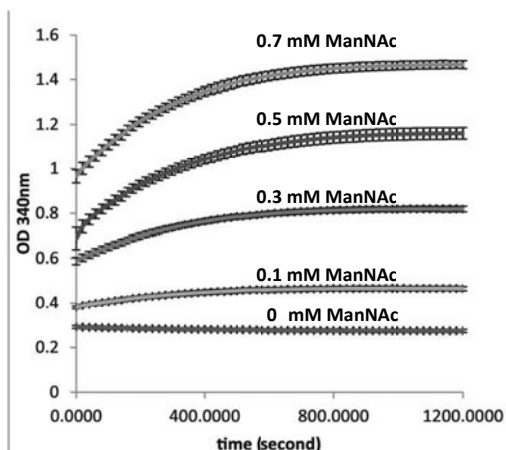
Synonyms: ManNAc dehydrogenase

Product Description

ManNAcDH is part of the UDP-glucose/GDP-mannose dehydrogenase family. ManNAcDH converts D-ManNAc to D-Mannuronic Acid while reducing NAD^+ to NADH.



This product is recombinantly expressed in *Escherichia coli* and was purified using nickel-chelation chromatography. The purified enzyme was verified to have a mass of 40 kDa.



ManNAcDH will contain 0.2 M sodium chloride, 0.3 M imidazole, 10% (v/v) glycerol and 0.1 M Tris/HCl buffer, pH 9.0.

Each lot of enzyme is tested and confirmed negative for the following contaminating activities: neuraminidase, α/β -galactosidase, β -mannosidase, β -xylosidase, β -N-acetylglucosaminidase, α/β -N-acetylgalactosaminidase, α -1 \rightarrow (2,6)-fucosidase. Protease activity was also not detected.

Specific Activity: 0.2-0.4 units/mg of protein

Unit Definition: One unit will produce 1.0 μ mole of Mannuronic Acid and NADH per minute at pH 9.0 at 37°C using ManNAc and NAD^+ as a substrate.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the material Data Safety Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product can be stored for up to 2 years at room temperature. After adding the Storage Buffer, store this product at 2-8°C. In liquid form, it will remain active for at least 12 months. For extended shelf-life, please aliquot and store at -80°C. **Do not freeze/thaw multiple times.**

Version: 2016-01-17

Sold through QLYCO Ltd., Nanjing

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