N-Acetylhexosamine kinase (NahK)

Cat. No.: HY-E70032

CAS No.: 1609980-80-4

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

N-Acetylhexosamine kinase

BIOLOGICAL ACTIVITY

Description	N-Acetylhexosamine kinase (NahK) is an anomeric kinase acting on a glucose-type substrate. N-Acetylhexosamine kinase catalyzes the phosphorylation of GlcNAc or GalNAc at the anomeric C1 position with ATP to form N-acetylhexosamine 1-phosphate (GlcNAc-1P/GalNAc-1P)[1][2].

REFERENCES

[1]. Sato M, et al. Open-close structural change upon ligand binding and two magnesium ions required for the catalysis of N-acetylhexosamine 1-kinase. Biochim Biophys Acta. 2015 May;1854(5):333-40.

[2]. Wang KC, et al. Insights into the binding specificity and catalytic mechanism of N-acetylhexosamine 1-phosphate kinases through multiple reaction complexes. Acta Crystallogr D Biol Crystallogr. 2014 May;70(Pt 5):1401-10.

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