



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## 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)<sup>[1][2]</sup>.

### 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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