# NADP

HY-113325	
53-59-8	
$C_{21}H_{28}N_7O_{17}P_3$	О, он Р Н0 <sup>С</sup> 0_он _ <sup>Н</sup> ₂ <sup>№</sup>
743.41	
Endogenous Metabolite	
Metabolic Enzyme/Protease	N∕⁄ NH₂
<b>4°C, protect from light</b> * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	
	53-59-8 C <sub>21</sub> H <sub>28</sub> N <sub>7</sub> O <sub>17</sub> P <sub>3</sub> 743.41 Endogenous Metabolite Metabolic Enzyme/Protease 4°C, protect from light

## SOLVENT & SOLUBILITY

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	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.3452 mL	6.7258 mL	13.4515 mL
		5 mM	0.2690 mL	1.3452 mL	2.6903 mL
		10 mM	0.1345 mL	0.6726 mL	1.3452 mL
– P	Please refer to the sc	lubility information to select the app	propriate solvent.		

BIOLOGICAL ACTIV	
Description	NADP, a nicotinamide adenine dinucleotide, is a redox cofactor. NADP is a key cofactor for electron transfer in the metabolism, being alternately oxidized (NADP <sup>+</sup> ) and reduced (NADPH). NADPH is the universal electron donor in cellula reductive biosyntheses and detoxification processes, and also plays a key role in oxidative defense system <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

## CUSTOMER VALIDATION

- Cell Prolif. 2021 Feb 25;e13015.
- Cell Oncol. 2023 Mar 13.

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- Eur J Pharm Sci. 2023 May 22;106475.
- Insect Biochem Mol Biol. 2023 May 12;103958.

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### REFERENCES

[1]. Agledal L, et al. The phosphate makes a difference: cellular functions of NADP. Redox Rep. 2010;15(1):2-10.

[2]. Zhao FL, et al. A genetically encoded biosensor for in vitro and in vivo detection of NADP+. Biosens Bioelectron. 2016 Mar 15;77:901-6.

[3]. O Carugo, et al. NADP-dependent enzymes. I: Conserved stereochemistry of cofactor binding. Proteins. 1997 May;28(1):10-28.

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

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