

NAD⁺ and cADPR Signalling:

High Purity Analogues of NAD⁺, cADPR and ADP-Ribose for Use in NAD⁺ Research

Analogues of NAD⁺

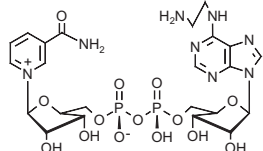
NAD⁺ analogue that is suitable as a ligand in affinity chromatography or for coupling of various labelling structures.

Biotinylated analogue of NAD⁺ which can provide a non-radioactive alternative to radio-labelled NAD⁺.

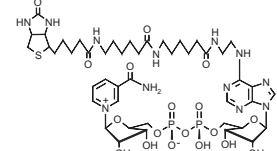
Brominated analogue of NAD⁺ that can be utilized as a substrate by the ADP-ribosyl cyclase CD38.

Potential substrate, competitive inhibitor or regulator of enzymes that interact with NAD⁺.

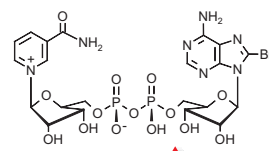
Fluorescent analogue of NAD⁺ with λ_{exc} 300 nm and λ_{em} 415 nm, e.g. suitable for fluorometric assays.



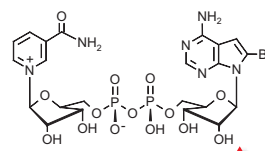
6-AE-NAD⁺
N 013-05, 5 μ mol/~3.5 mg
N 013-25, 5 x 5 μ mol



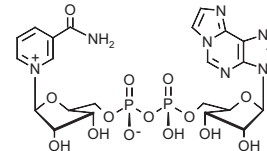
6-Biotin-17-NAD⁺
N 012-001, 0.1 μ mol/~116 μ g
N 012-005, 5 x 0.1 μ mol



8-Br-NAD⁺ NEW
N 017-10, 10 μ mol/~7.4 mg
N 017-50, 5 x 10 μ mol



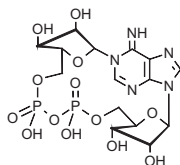
8-Br-7-CH-NAD⁺ NEW
N 016-01, 1 μ mol/~0.7 mg
N 016-05, 5 x 1 μ mol



ε-NAD⁺
N 010-10, 10 μ mol/~6.9 mg
N 010-50, 5 x 10 μ mol

cADPR

cADPR is a second messenger that modulates calcium release in many biological systems incl. plants. It is formed by ADP-ribosyl cyclases from NAD⁺.



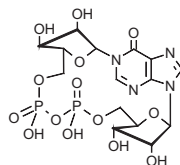
cADPR BULK
C 005-005, 0.5 μ mol/~270 μ g
C 005-025, 5 x 0.5 μ mol

cADPR Agonists

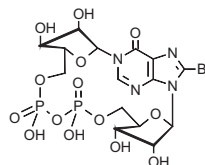
N¹-cIDPR is a metabolically stable analogue of the second messenger cADPR.

8-Br-N¹-cIDPR is an analogue of cADPR that has higher cell-permeability and metabolic stability.

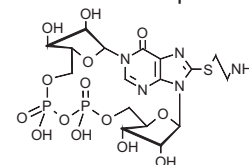
Analogue of the cADPR agonist N¹-cIDPR which is suitable as a ligand in affinity chromatography or for coupling of various labelling structures incl. fluorophores.



N¹-cIDPR
C 098-005, 0.5 μ mol/~271 μ g
C 098-025, 5 x 0.5 μ mol



8-Br-N¹-cIDPR BULK
B 071-005, 0.5 μ mol/~311 μ g
B 071-025, 5 x 0.5 μ mol



8-AET-N¹-cIDPR
A 140-005, 0.5 μ mol/~309 μ g
A 140-025, 5 x 0.5 μ mol

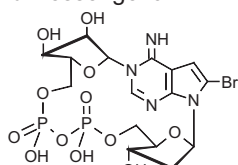
cADPR Antagonists

8-Br-7-CH-cADPR is a hydrolysis-resistant and membrane-permeant antagonist of the second messenger cADPR.

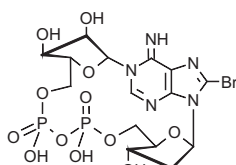
8-Br-cADPR is an antagonist of the second messenger cADPR.

β-NAADP is a potent stimulator of intracellular Ca²⁺ mobilization in a variety of cell types.

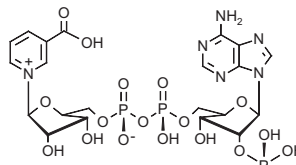
Fluorescent analogue of the Ca²⁺-releasing messenger β-NAADP with λ_{exc} 275 nm and λ_{em} 410 nm.



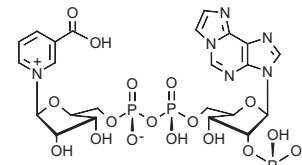
8-Br-7-CH-cADPR NEW
B 100-005, 0.5 μ mol/~310 μ g
B 100-025, 5 x 0.5 μ mol



8-Br-cADPR BULK
B 065-005, 0.5 μ mol/~310 μ g
B 065-025, 5 x 0.5 μ mol



β-NAADP NEW
N 018-10, 10 μ mol/~7.4 mg
N 018-50, 5 x 10 μ mol



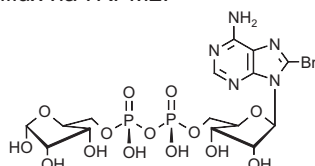
ε-NAADP NEW
N 019-05, 5 μ mol/~3.8 mg
N 019-25, 5 x 5 μ mol

Analogues of ADP-Ribose

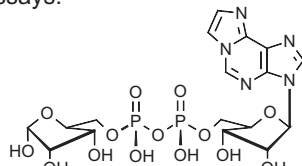
Antagonist of the second messenger ADP-ribose (ADPR), inhibiting ADPR-activated cation influx via TRPM2.

Fluorescent analogue of ADPR with λ_{exc} 300 nm and λ_{em} 410 nm that can be used in fluorometric assays.

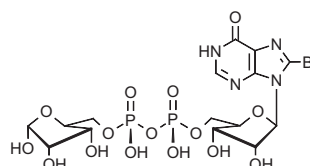
Analogue of the ADP-ribose antagonist 8-Br-ADPR.



8-Br-ADPR
B 051-05, 5 μ mol/~3.2 mg
B 051-25, 5 x 5 μ mol



ε-ADPR
E 013-10, 10 μ mol/~5.8 mg
E 013-50, 5 x 10 μ mol



8-Br-IDPR
B 082-005, 0.5 μ mol/~320 μ g
B 082-025, 5 x 0.5 μ mol

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