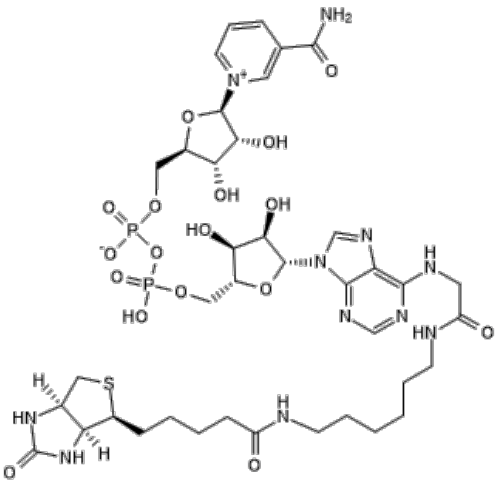
Product Data Sheet

Product Name: Biotin-NAD+
Cat. No.: GC50505

Chemical Properties

Cas. No.	146385-37-7		
SMILES	[H][C@]12CS[C@H]([C@]1(NC(N2)=O)[H])CCCCC(NCCCCCCNC(CNC3=C(N=CN4[C@@H]5O[C@@H]([C@H]([C@H]5O)O)COP(O)(OP(OC[C@H]6O[C@@H]([N+]7=CC=CC(C(N)=O)=C7)[C@H](O)[C@@H]6O)([O-])=O)=O)C4=NC=N3)=O)=O		
Formula	C39H57N11O17P2S	M.Wt	1045.95
Solubility	Soluble in water (supplied pre-dissolved at a concentration of 0.25mM)	Storage	Store at -80°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Provides a convenient non-isotopic alternative to radiolabeled NAD+ for determination of IC50 values for candidate PARP inhibitors and studies requiring this substrate. Biotinylated-NAD+ allows an indirect measure of PARP activity when biotin incorporation is detected using a conjugated-

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streptavidin detection system. Acts as a substrate for ADP-ribosylation. Can be used to label and purify biotinyl-ADP ribosylated proteins. This product is a replacement for R&D Systems product 4670-500-01. 131 µg is supplied as 500 µl of a 0.25 mM solution in water.

Zhang et al (1993) Purification of a nitric oxide-stimulated ADP-ribosylated protein using biotinylated beta-nicotinamide adenine dinucleotide. Biochemistry 32 2228 PMID:8443164 |Yang et al (2017) Ubiquitin Modification by the E3 Ligase/ADP-Ribosyltransferase Dtx3L/Parp9 Mol. Cell 66 613 PMID:28525742 |Schuster et al (2017) The Hsp90 machinery facilitates the transport of diphtheria toxin into human cells. Sci.Rep. 7 613 PMID:28377614 |Yang (2013) Antitumor activity of a pyrrole-imidazole polyamide. Proc.Natl.Acad.Sci.USA 110 1863 PMID:23319609

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