Creative Enzymes®

ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase

Cat. No. EXWM-3988

Lot. No. (See product label)

Introduction

Description	This multiunctional enzyme catalyses both the synthesis and hydrolysis of cyclic ADP-ribose, a calcium messenger that can mobilize intracellular Ca2+ stores and activate Ca2+ influx to regulate a wide range of physiological processes. In addition, the enzyme also catalyses EC 2.4.99.20, 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase. cf. EC 3.2.2.5, NAD+ glycohydrolase.
Synonyms	NAD+ nucleosidase; NADase (ambiguous); DPNase (ambiguous); DPN hydrolase (ambiguous); NAD hydrolase (ambiguous); nicotinamide adenine dinucleotide nucleosidase (ambiguous); NAD glycohydrolase (misleading); NAD nucleosidase (ambiguous); nicotinamide adenine dinucleotide glycohydrolase (misleading); CD38 (gene name); BST1 (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.2.2.6
CAS No.	9032-65-9
Reaction	NAD+ + H2O = ADP-D-ribose + nicotinamide (overall reaction); (1a) NAD+ = cyclic ADP-ribose + nicotinamide; (1b) cyclic ADP-ribose + H2O = ADP-D-ribose
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.