

## ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase

Cat. No. EXWM-3988

Lot. No. (See product label)

### Introduction

**Description** This multifunctional enzyme catalyses both the synthesis and hydrolysis of cyclic ADP-ribose, a calcium messenger that can mobilize intracellular  $\text{Ca}^{2+}$  stores and activate  $\text{Ca}^{2+}$  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<sup>+</sup> glycohydrolase.

**Synonyms** NAD<sup>+</sup> 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**  $\text{NAD}^+ + \text{H}_2\text{O} = \text{ADP-D-ribose} + \text{nicotinamide}$  (overall reaction); (1a)  $\text{NAD}^+ = \text{cyclic ADP-ribose} + \text{nicotinamide}$ ; (1b)  $\text{cyclic ADP-ribose} + \text{H}_2\text{O} = \text{ADP-D-ribose}$

**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 °C for short term. For long term storage, store it at -20 °C~-80 °C.