

2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase

Cat. No. EXWM-2705

Lot. No. (See product label)

Introduction

Description This multiunctional enzyme catalyses both the removal of nicotinamide from

NADP+, forming 2'-phospho-cyclic ADP-ribose, and the addition of nicotinate to the

cyclic product, forming NAADP+, 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 3.2.2.6, ADP-

ribosyl cyclase/cyclic ADP-ribose hydrolase.

Synonyms diphosphopyridine nucleosidase (ambiguous); CD38 (gene name); BST1 (gene

name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.99.20

Reaction NADP+ + nicotinate = nicotinate-adenine dinucleotide phosphate + nicotinamide

(overall reaction); (1a) NADP+ = 2'-phospho-cyclic ADP-ribose + nicotinamide; (1b)

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2'-phospho-cyclic ADP-ribose + nicotinate = nicotinate-adenine dinucleotide

phosphate

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

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

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