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photos (3)

N2415 ▶ **Sigma-Aldrich**

Nucleoside Phosphorylase bacterial

★★★★★ (0)

recombinant, expressed in *E. coli*, ≥10 units/mg protein

Synonyme(s):

PNP, Purine nucleoside phosphorylase, Purine nucleoside:orthophosphate ribosyltransferase

Numéro CAS: **9030-21-1**

Numéro de classification
(Commission des enzymes):

2.4.2.1 (BRENDA, IUBMB)

Numéro EC: **232-857-3**

Numéro MDL:

MFCD00131739

Documents



FDS



COO/COA



**Fiche des
caractéristiques**

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documents »

Référence	Conditionnement	Disponibilité	Prix	Quantité
N2415-100UN	100 UNITS	✓ Disponible pour expédition le 07 octobre 2022	Détails... 138,00 €	− + i
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PRODUITS RECOMMANDÉS



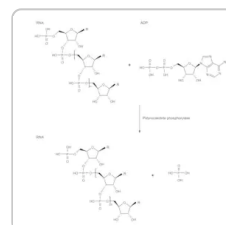
Sigma-Aldrich

N3665

Pyrimidine Nucleoside Phosphorylase from *Bacillus subtilis*

recombinant, expressed in *E. coli*, ≥ 70 units/mg protein

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Sigma-Aldrich

N9914

Polynucleotide phosphorylase from *Synechocystis* sp.

recombinant, expressed in *E. coli*

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PROPRIÉTÉS

Recombinant	expressed in <i>E. coli</i>
Niveau de qualité	200
Essai/Dosage	$\geq 80\%$ protein basis (biuret)
Forme	lyophilized powder
specific activity	≥ 10 units/mg protein

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N° d'accession UniProt	P0ABP8
Temp. de stockage	-20°C
InChI	1S/C10H12N4O4/c15-2-6-7(16)8(17)10(18-6)14-4-13-5-1-11-3-12-9(5)14/h1,3-4,6-8,10,15-17H,2H2/t6-,7-,8-,10-/m1/s1
InChI key	MRWXACSTFXYYMV-FDDDBJFASA-N
Gene Information	<i>Escherichia coli</i> ... deoD(945654)

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DESCRIPTION

Application

Bacterial nucleoside phosphorylase has been used in a study that identified and characterized two adenosine phosphorylase activities in *Mycobacterium smegmatis*. Bacterial nucleoside phosphorylase has also been used in a study to investigate the inhibition of pyrimidine and purine nucleoside phosphorylases by a 3,5-dichlorobenzoyl-substituted 2-deoxy-D-ribose-1-phosphate derivative.

Nucleoside Phosphorylase bacterial has been used in reaction buffer and buffer-exchanged to remove residual phosphate.

Nucleoside phosphorylase is used in coupled enzyme systems to measure protein dephosphorylation.

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**Actions biochimiques/physiologiques**

Nucleoside Phosphorylase/purine nucleoside phosphorylase (PNP), an enzyme participates in the purine salvage pathway. It also helps in the reversible cleavage of inosine to hypoxanthine and guanosine to guanine. PNP deficiency results in neurologic manifestations.

Catalyzes the following reaction: purine nucleoside + phosphate = purine + alpha-D-ribose 1-phosphate

Définition de l'unité

One unit will cause the phosphorolysis of 1.0 micromole of inosine to hypoxanthine and ribose-1-phosphate per min at pH 7.4 at 25 deg C.

Notes préparatoires

This is a salt-free and animal component-free enzyme preparation. This enzyme should be solubilized in a 10mM KPO₄, pH 7.4 solution.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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Rechercher

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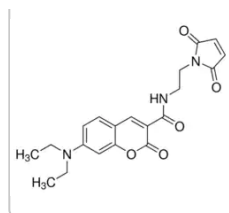
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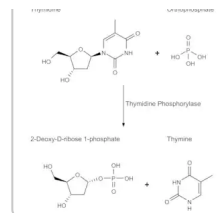


05019

7-Diethylamino-3-[N-(2-maleimidoethyl)carbamoyl]coumarin

BioReagent, suitable for fluorescence, ≥97.0% (HPLC)

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T6632

Thymidine Phosphorylase, recombinant from *Escherichia coli*

recombinant, expressed in *E. coli*, buffered aqueous solution, ≥900 units/mL, 0.2 µm filtered

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ARTICLES REVUS PAR DES PAIRS

A fluoride-responsive genetic circuit enables in vivo biofluorination in engineered *Pseudomonas putida*.

Patricia Calero et al.

Nature communications, 11(1), 5045-5045 (2020-10-09)

Fluorine is a key element in the synthesis of molecules broadly used in medicine, agriculture and materials. Addition of fluorine to organic structures represents a unique strategy for tuning molecular properties, yet this atom is rarely found in Nature and

Conformational stability and catalytic activity of PTEN variants linked to cancers and autism spectrum disorders

Johnston S B and Raines R T

Biochemistry, 54(7), 1576-1582 (2015)

Primary T-cell immunodeficiencies

Clinical Immunology (Orlando, Fla.), 54(7), 489-508 (2019)

Disorders of purines and pyrimidines

Handbook of Clinical Neurology, 827-838 (2014)

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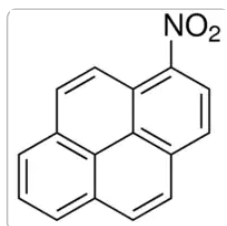
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Phosphatase and tensin homologue deleted from chromosome ten (PTEN) is a lipid phosphatase tumor suppressor that is lost or inactivated in most human tumors. The enzyme catalyzes the hydrolysis of phosphatidylinositol-(3,4,5)-trisphosphate (PIP3) to form phosphatidylinositol-(4,5)-bisphosphate (PIP2) and inorganic phosphate. Here

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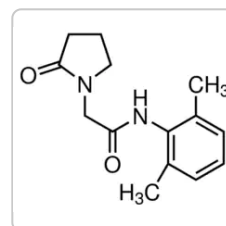
Sigma-Aldrich

N22959

1-Nitropyrene

≥95%

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Sigma-Aldrich

N2288

Nefiracetam

solid

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Évaluations



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