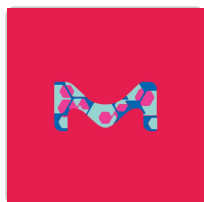


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Documents

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documents »](#)**O4878** ▶ **Sigma-Aldrich.**

Oxaloacetate Decarboxylase from *Pseudomonas* sp.

★★★★★ (0)

lyophilized powder, ≥100 units/mg solid

Synonyme(s):
OADNuméro CAS: **9024-98-0**Numéro MDL: **MFCD00131775**Numéro de classification
(Commission des enzymes): **4.1.1.3 (BRENDA, IUBMB)**

NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
O4878-500UN	500 UNITS	✓ Only 2 left in stock (more on the way) Détails...	308,00 €	− + i
O4878-1KU	1000 UNITS	✓ Only 3 left in stock (more on the way) Détails...	570,00 €	− + i

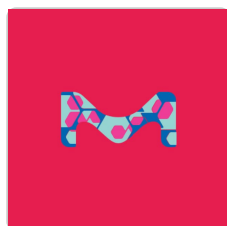
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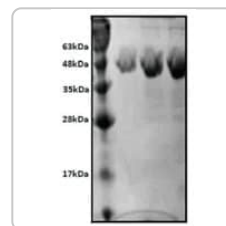
Sigma-Aldrich

P4105

Pyruvate Oxidase from *Aerococcus* sp.

lyophilized powder, ≥ 35 units/mg protein (biuret)

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Sigma-Aldrich

SRP6283

Oxalate Decarboxylase

recombinant, expressed in HEK 293 cells, $\geq 98\%$ (SDS-PAGE)

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PROPRIÉTÉS

Forme lyophilized powder

Niveau de qualité 200

specific activity ≥ 100 units/mg solid

Temp. de stockage -20°C

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DESCRIPTION

Description générale

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Application

Oxaloacetate Decarboxylase from *Pseudomonas* sp. has been used in the digestion of the low molecular weight (LMW) human milk fraction (5kF fraction) and as a positive control for deciphering *C. thermocellum* oxaloacetate decarboxylase activity.

Oxaloacetate decarboxylase has been used in a study to assess turnover and accessibility of a reentrant loop of the Na(+)-glutamate transporter GltS. It has also been used in a study to investigate fermentation and metabolic characteristics of *Gluconacetobacter oboediens* for different carbon sources.

Conditionnement

500, 1000 units in glass bottle

Actions biochimiques/physiologiques

Oxaloacetate Decarboxylase catalyzes the decarboxylation of oxaloacetate and requires manganese and magnesium for its activity. It is associated with a wide variety of Gram-negative bacteria.

Définition de l'unité

One unit will convert 1.0 μ mole of oxalacetate to pyruvate and CO₂ per min at pH 8.0 at 25 °C.

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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DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

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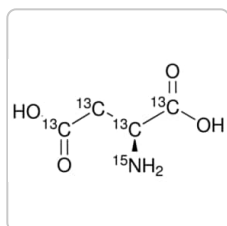
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607835

L-Aspartic acid-¹³C₄, ¹⁵N

98 atom % ¹³C, 98 atom % ¹⁵N, 95% (CP)

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Sigma-Aldrich

MAK070

Oxaloacetate Assay Kit

sufficient for 100 colorimetric or fluorometric tests

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ARTICLES REVUS PAR DES PAIRS

Characterization of an oxaloacetate decarboxylase that belongs to the malic enzyme family.

Pablo D Sender et al.

FEBS letters, 570(1-3), 217-222 (2004-07-15)

The citM gene from *Lactococcus lactis* CRL264 was demonstrated to encode for an oxaloacetate decarboxylase. The enzyme exhibits high levels of similarity to malic enzymes (MEs) from other organisms. CitM was expressed in *Escherichia coli*, purified and its oxaloacetate decarboxylase

Identification of a domain in the alpha-subunit of the oxaloacetate decarboxylase Na⁺ pump that accomplishes complex formation with the gamma-subunit.

Pius Dahinden et al.

The FEBS journal, 272(3), 846-855 (2005-01-27)

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Turnover and accessibility of a reentrant loop of the Na⁺-glutamate transporter GltS are modulated by the central cytoplasmic loop.

Tomas Krupnik et al.

Molecular membrane biology, 28(7-8), 462-472 (2011-10-15)

GltS of *Escherichia coli* is a secondary transporter that catalyzes Na⁺-glutamate symport. The structural model of GltS shows two homologous domains with inverted membrane topology that are connected by a central loop that resides in the cytoplasm. Each domain contains

Oxalacetic carboxylase of *Micrococcus lysodeikticus*.

Herbert, D.

Methods in Enzymology, 1, 753-757 (1955)

Quaternary structure of the oxaloacetate decarboxylase membrane complex and mechanistic relationships to pyruvate carboxylases.

Monica Balsera et al.

The Journal of biological chemistry, 286(11), 9457-9467 (2011-01-07)

The oxaloacetate decarboxylase primary Na⁽⁺⁾ pump (OAD) is an essential membrane protein complex that functions in the citrate fermentation pathway of some pathogenic bacteria under anaerobic conditions. OAD contains three different subunits: Oad- α , a biotinylated extrinsic protein that catalyzes the

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O4876



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O4636

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