

Recombinant *Bacillus subtilis* subsp. *subtilis* str. 168 oxalate decarboxylase, His tagged

Cat. No. oxdC-10BFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant *Bacillus subtilis* subsp. *subtilis* str. 168 oxalate decarboxylase with His tag was expressed in HEK293.

Species

Bacillus subtilis

Source

HEK293

ProteinLength

1-385aa

Description

N-methylation is one method by which drug and other xenobiotic compounds are metabolized by the liver. NNMT is an important cytosolic methyltransferase catalyzing the N-methylation of nicotinamide, pyridines and structural analogs, playing a crucial role in the biotransformation and detoxification of many xenobiotic compounds. In the N-methylation process, NNMT uses S-adenosyl methionine as the methyl donor and nicotinamide as methyl acceptor. NNMT is mostly expressed in the liver, and a lower expression is seen in the kidney, lung, skeletal muscle, placenta and heart. It may also play an important role in regulating biological processes related to N-methyl nicotinamide such as anti-inflammatory, anti-thrombotic, vasoprotective, and gastroprotective properties. Increased NNMT activity was reported in many kinds of tumors. NNMT is a potential biomarker and therapeutic target in cancer diagnosis and treatment. NNMT serum levels have significance in the premature detection and in the management of patients with colorectal cancer.

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Tag	N-6×His
Form	Liquid
Bio-activity	Specific activity with 100 mM oxalate is approximately 150 U/mg. (Specific activity is calculated by oxalate decarboxylase activity colorimetric assay kit.)
Molecular Mass	45.9 kDa
Purity	≥98% (SDS-PAGE)
Storage	At -70 centigrade.
Concentration	2 mg/mL
Storage Buffer	HEPES Buffer containing 20% glycerol.

GENE INFORMATION

Gene Name	oxdC oxalate decarboxylase [Bacillus subtilis subsp. subtilis str. 168]
Official Symbol	oxdC
Synonyms	oxdC; oxalate decarboxylase; oxalate decarboxylase; EC 4.1.1.2; Evidence 1a: Function from experimental evidences in the studied strain; PubMedId: 10960116, 14697267, 14871895, 17459326, 18573182, 19047353, 21255608, 21264418, 21782782, 26744902, 27797181; Product type e : enzyme
Gene ID	938620
Protein Refseq	NP_391204

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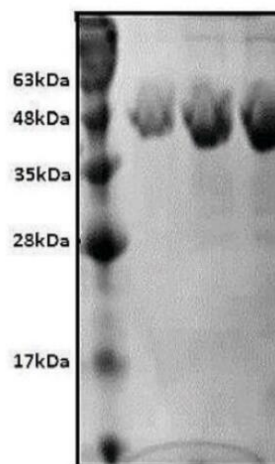
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UniProt ID

O34714

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