

## 8-oxo-dGDP phosphatase

Cat. No. EXWM-4630

Lot. No. (See product label)

### Introduction

#### Description

The enzyme catalyses the hydrolysis of both 8-oxo-dGDP and 8-oxo-GDP thereby preventing translational errors caused by oxidative damage. The preferred in vivo substrate is not known. The enzyme does not degrade 8-oxo-dGTP and 8-oxo-GTP to the monophosphates (cf. EC 3.6.1.55, 8-oxo-dGTP diphosphatase).

Ribonucleotide diphosphates and deoxyribonucleotide diphosphates are hydrolysed with broad specificity. The bifunctional enzyme NUDT5 also hydrolyses ADP-ribose to AMP and D-ribose 5-phosphate (cf. EC 3.6.1.13, ADP-ribose diphosphatase). The human enzyme NUDT18 also hydrolyses 8-oxo-dADP and 2-hydroxy-dADP, the latter at a slower rate.

#### Synonyms

NUDT5; MTH3 (gene name); NUDT18

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.6.1.58

#### Reaction

8-oxo-dGDP + H<sub>2</sub>O = 8-oxo-dGMP + 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

#### Storage

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