

## dUTP diphosphatase

Cat. No. EXWM-4607

Lot. No. (See product label)

### Introduction

#### Description

This enzyme has a dual function: on one hand, it removes dUTP from the deoxynucleotide pool, which reduces the probability of this base being incorporated into DNA by DNA polymerases, while on the other hand, it produces the dTTP precursor dUMP. Lack or inhibition of dUTPase action leads to harmful perturbations in the nucleotide pool resulting in increased uracil content of DNA that activates a hyperactive futile cycle of DNA repair.

#### Synonyms

deoxyuridine-triphosphatase; dUTPase; dUTP pyrophosphatase; desoxyuridine 5'-triphosphate nucleotidohydrolase; desoxyuridine 5'-triphosphatase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.6.1.23

#### CAS No.

37289-34-2

#### Reaction

$\text{dUTP} + \text{H}_2\text{O} = \text{dUMP} + \text{diphosphate}$

#### 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.