

## GTP cyclohydrolase I

Cat. No. EXWM-4542

Lot. No. (See product label)

### Introduction

#### Description

The reaction involves hydrolysis of two C-N bonds and isomerization of the pentose unit; the recyclization may be non-enzymic. This enzyme is involved in the de novo synthesis of tetrahydrobiopterin from GTP, with the other enzymes involved being EC 1.1.1.153 (sepiapterin reductase) and EC 4.2.3.12 (6-pyruvoyltetrahydropterin synthase).

#### Synonyms

GTP cyclohydrolase; guanosine triphosphate cyclohydrolase; guanosine triphosphate 8-deformylase; dihydroneopterin triphosphate synthase; GTP 8-formylhydrolase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.5.4.16

#### CAS No.

37289-19-3

#### Reaction

$\text{GTP} + \text{H}_2\text{O} = \text{formate} + 7,8\text{-dihydroneopterin } 3'\text{-triphosphate}$

#### 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.