

## archaeosine synthase

Cat. No. EXWM-2938

Lot. No. (See product label)

## Introduction

**Description** In Euryarchaeota the reaction is catalysed by ArcS. In Crenarchaeota, which do not

have an ArcS homologue, the reaction is catalysed either by a homologue of EC 6.3.4.20, 7-cyano-7-deazaguanine synthase that includes a glutaminase domain (cf. EC 3.5.1.2), or by a homologue of EC 1.7.1.13, preQ1 synthase. The enzyme from the Euryarchaeon Methanocaldococcus jannaschii can also use arginine and

ammonium as amino donors.

**Synonyms** ArcS; TgtA2; MJ1022 (gene name); glutamine:preQ0-tRNA amidinotransferase

(incorrect)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 2.6.1.97

Reaction L-glutamine + 7-cyano-7-carbaguanine15 in tRNA + H2O = L-glutamate +

archaeine15 in tRNA

**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

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

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