

## theobromine synthase

Cat. No. EXWM-1755

Lot. No. (See product label)

### Introduction

**Description** This is the third enzyme in the caffeine-biosynthesis pathway. This enzyme can also catalyse the conversion of paraxanthine into caffeine, although the paraxanthine pathway is considered to be a minor pathway for caffeine biosynthesis.

**Synonyms** monomethylxanthine methyltransferase; MXMT; CTS1; CTS2; S-adenosyl-L-methionine:7-methylxanthine 3-N-methyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.1.1.159

**Reaction** S-adenosyl-L-methionine + 7-methylxanthine = S-adenosyl-L-homocysteine + 3,7-dimethylxanthine

**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.