

## tryptophan 2,3-dioxygenase

Cat. No. EXWM-0531

Lot. No. (See product label)

### Introduction

**Description** A protohemoprotein. In mammals, the enzyme appears to be located only in the liver. This enzyme, together with EC 1.13.11.52, indoleamine 2,3-dioxygenase, catalyses the first and rate-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism. The enzyme is specific for tryptophan as substrate, but is far more active with L-tryptophan than with D-tryptophan.

**Synonyms** tryptophan pyrrolase (ambiguous); tryptophanase; tryptophan oxygenase; tryptamine 2,3-dioxygenase; tryptophan peroxidase; indoleamine 2,3-dioxygenase (ambiguous); indolamine 2,3-dioxygenase (ambiguous); L-tryptophan pyrrolase; TDO; L-tryptophan 2,3-dioxygenase; L-tryptophan:oxygen 2,3-oxidoreductase (deacylizing)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.13.11.11

**CAS No.** 9014-51-1

**Reaction** L-tryptophan + O<sub>2</sub> = N-formyl-L-kynurenine

**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.