

hypoxia-inducible factor-proline dioxygenase

Cat. No. EXWM-0646

Lot. No. (See product label)

Introduction

Description

Contains iron, and requires ascorbate. Specifically hydroxylates a proline residue in HIF- α , the α subunit of the transcriptional regulator HIF (hypoxia-inducible factor), which targets HIF for proteasomal destruction. The requirement of oxygen for the hydroxylation reaction enables animals to respond to hypoxia.

Synonyms

HIF hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.11.29

Reaction

hypoxia-inducible factor-L-proline + 2-oxoglutarate + O₂ = hypoxia-inducible factor-trans-4-hydroxy-L-proline + succinate + CO₂

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.