

hydrogenobyrrinic acid a,c-diamide synthase (glutamine-hydrolysing)

Cat. No. EXWM-5811

Lot. No. (See product label)

Introduction

Description This step in the aerobic biosynthesis of cobalamin generates hydrogenobyrrinic acid a,c-diamide, the substrate required by EC 6.6.1.2, cobaltochelataase, which adds cobalt to the macrocycle.

Synonyms CobB

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.5.9

CAS No. 132053-22-6

Reaction $2 \text{ ATP} + \text{hydrogenobyrrinic acid} + 2 \text{ L-glutamine} + 2 \text{ H}_2\text{O} = 2 \text{ ADP} + 2 \text{ phosphate} + \text{hydrogenobyrrinic acid a,c-diamide} + 2 \text{ L-glutamate}$

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.