

L-galactonolactone dehydrogenase

Cat. No. EXWM-1370

Lot. No. (See product label)

Introduction

Description This enzyme catalyses the final step in the biosynthesis of L-ascorbic acid in higher plants and in nearly all

higher animals with the exception of primates and some birds. The enzyme is very specific for its substrate L-galactono-1,4-lactone as D-galactono- γ -lactone, D-gulono- γ -lactone, L-gulono- γ -lactone, D-gulono- γ -lac

cannot act as electron acceptor.

Synonyms galactonolactone dehydrogenase; L-galactono-γ-lactone dehydrogenase; L-galactono-γ-

lactone:ferricytochrome-c oxidoreductase; GLDHase; GLDase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.2.3

CAS No. 9029-02-1

Reaction L-galactono-1,4-lactone + 4 ferricytochrome c = L-dehydroascorbate + 4 ferrocytochrome c + 4 H+

(overall reaction); (1a) L-galactono-1,4-lactone + 2 ferricytochrome c = L-ascorbate + 2 ferrocytochrome c + 2 H+; (1b) L-ascorbate + 2 ferricytochrome c = L-dehydroascorbate + 2 ferrocytochrome c + 2 H+

(spontaneous)

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 \sim -80 °C.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1