Creative Enzymes®

ribonucleoside-diphosphate reductase

Cat. No. EXWM-1090

Lot. No. (See product label)

Introduction

Description	This enzyme is responsible for the de novo conversion of ribonucleoside diphosphates into deoxyribonucleoside diphosphates, which are essential for DNA synthesis and repair. An iron protein. While the enzyme is activated by ATP, it is inhibited by dATP.
Synonyms	ribonucleotide reductase; CDP reductase; ribonucleoside diphosphate reductase; UDP reductase; ADP reductase; nucleoside diphosphate reductase; ribonucleoside 5'-diphosphate reductase; ribonucleotide diphosphate reductase; 2'-deoxyribonucleoside-diphosphate:oxidized-thioredoxin 2'-oxidoreductase; RR

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.17.4.1
CAS No.	9047-64-7
Reaction	2'-deoxyribonucleoside diphosphate + thioredoxin disulfide + H2O = ribonucleoside diphosphate + thioredoxin
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.