Creative Enzymes®

Recombinant Paracoccus denitrificans Nitrous-oxide reductase

Cat. No. EXWM-1619

Lot. No. (See product label)

Introduction

Description	The reaction is observed only in the direction of nitrous oxide reduction. Contains the mixed-valent dinuclear CuA species at the electron entry site of the enzyme, and the tetranuclear Cu-Z centre in the active site.In Paracoccus pantotrophus, the electron donor is cytochrome c552.

Product Information

Species	Paracoccus denitrificans
Source	E.coli
Form	Liquid or Lyophilized powder
EC Number	EC 1.7.2.4
CAS No.	55576-44-8
Purity	Greater than 90% as determined by SDS-PAGE.
Activity	Not detected
Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. Note: If you have any special requirement for the glycerol content, please remark when you place the order. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Reaction	nitrogen + H2O + 2 ferricytochrome c = nitrous oxide + 2 ferrocytochrome c + 2 H+
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 at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.