

## Free Methionine-(R)-Sulfoxide Reductase from E. coli, recombinant

Cat. No. NATE-1693

Lot. No. (See product label)

### Introduction

#### Description

The Free Methionine-(R)-Sulfoxide Reductase (fRMsr) reduces free methionine sulfoxide (Met(O)) to methionine using thiol-disulfide exchange chemistry. This enzyme is involved in oxidative defense and known to form a sulfenic acid intermediate at the active site Cys during the course of turnover. In this variant, all Cys other than the peroxide-sensitive Cys have been removed by mutagenesis in order to stabilize the active site sulfenic acid with respect to disulfide bond formation.

#### Applications

Free Methionine-(R)-Sulfoxide Reductase (C84S, C94S), or fRMsr, can be selectively derivatized at a single Cys residue with a variety of Cys-SOH specific probes and be used as a positive control.

### Product Information

<b>Source</b>	E. coli
<b>Form</b>	Liquid
<b>EC Number</b>	EC 1.8.4.14
<b>Molecular Weight</b>	18,752 Da
<b>Purity</b>	>98% by SDS-PAGE
<b>Concentration</b>	10mg/mL
<b>pH Stability</b>	5.5-8.0
<b>Buffer</b>	20mM Hepes pH 7.5, 100mM NaCl

### Storage and Shipping Information

<b>Storage</b>	at -80 °C
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