9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SEPX1 Human

Selenoprotein X 1 Human Recombinant
RCP2031

Product Overview

Name	SEPX1 Human

Description

Selenoprotein X 1 Human Recombinant

Accession (Primary)	Q9NZV6

Synonyms

Methionine-R-sulfoxide reductase B1, MsrB1, Selenoprotein X, SelX, SEPX1, SELR, SELX, HSPC270, MGC3344.

Introduction

Methionine sulfoxide reductase B1 (SEPX1 or MSRB1), is a selenoprotein that contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that usually signals translation termination. SEPX1 is a member of the methionine sulfoxide reductase B (MsrB) family, and is expressed in an assortment of adult and fetal tissues. MSRs (Methionine sulfoxide reductases) catalyze the reduction of free and protein-bound methionine sulfoxides to corresponding methionines. The oxidation of methionine by ROS creates a diastereomeric mixture of methionine-S-sulfoxide (Met-S-SO) and methionine-R-sulfoxide (Met-R-SO). Two separate enzyme families evolved for reduction of these sulfoxides, with methionine-S-sulfoxide reductase (MsrA) being stereospecific for Met-S-SO and methionine-R-sulfoxide reductase (MsrB) for Met-R-SO.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The SEPX1 solution (0.5 mg/ml) contains 20mM Tris-HCl Buffer (pH 7.5), 1mM DTT, 0.1mM PMSF, 2mM EDTA and 10% Glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MGSSHHHHHH SSGLVPRGSH MSFCSFFGGE VFQNHFEPGV YVCAKCGYEL FSSRSKYAHS SPWPAFTETI HADSVAKRPE HNRSEALKVS CGKCGNGLGH EFLNDGPKPG QSRFCIFSSS LKFVPKGKET SASQGH.

Precautions

SEPX1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NZV6)