
Product Data Sheet

Product Name: MSRB3 Human
 Cat. No.: GP21959
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Methionine-R-sulfoxide reductase B3; MSRB3; DFNB74; FLJ36866; DKFZp686C1178.		
Amino Acid Sequence	MCGLPSGSCR DKKNCKVVFS QQELRKRLTP LQYHVTQEKG TESAFEGEYT HHKDPGIYKC VVCGTPLFKS ETKFDSGSGW PSFHDVINSE AITFTDDFSY GMHRVETSCS QCGAHLGHIF DDGPRPTGKR YCINSAALSF TPADSSGTAE GGSGVASPAQ ADKAELLEHH HHHH.		
Formulation	The MSRB3 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1mM PMSF.		

Introduction

Methionine sulfoxide reductase B3 (MSRB3) is a member of the methionine sulfoxide reductases (MSR) family proteins. MSRB3 catalyzes the reduction of methionine sulfoxide to methionine. The MSRB3 enzyme acts as a monomer and requires zinc as a cofactor. MSRs are thought to defend against reactive oxygen species-induced oxidative damage in various organs, including the most environmentally exposed organ, the human skin. MSRB3 has a vital role in cold tolerance by eliminating MetO and ROS which accumulate at the ER during cold acclimation.

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.

Background

MSRB3 Human Recombinant fused with an 8 amino acid His tag at C-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 174 amino acids (21-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

185 a.a.) and having a molecular mass of 19kDa. The MSRB3 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA