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Recombinant human MSRB3 protein

Catalog Number: ATGP0951

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-185aa

UniProt No.

O8IXL7

NCBI Accession No.

NP 001026849

Alternative Names

Methionine sulfoxide reductase B3

PRODUCT SPECIFICATION

Molecular Weight

19 kDa (174aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1mM PMSF

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Methionine sulfoxide reductase B3, also known as MSRB3, belongs to the methionine sulfoxide reductases (MSR) family proteins. MSRs are thought to protect against reactive oxygen species-induced oxidative damage in many organs, including the most environmentally exposed organ, human skin. MSRB3 plays an important role in cold tolerance by eliminating MetO and ROS that accumulate at the ER during cold acclimation. Recombinant human MSRB3 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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Amino acid Sequence

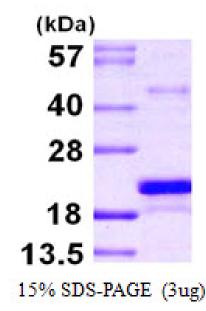
MCGLPSGSCR DKKNCKVVFS QQELRKRLTP LQYHVTQEKG TESAFEGEYT HHKDPGIYKC VVCGTPLFKS ETKFDSGSGW PSFHDVINSE AITFTDDFSY GMHRVETSCS QCGAHLGHIF DDGPRPTGKR YCINSAALSF TPADSSGTAE GGSGVASPAQ ADKAELLEHH HHHH

General References

Taunqiaruwinai WM., et al. (2009) Am J Dermatopathol. 31(5):427-31-7. Kwon SJ., et al. (2007) Plant Cell Physiol. 48(12):1713-23.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

