Recombinant human MSRB3 protein

Catalog Number: ATGP0951

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-185aa

UniProt No.
Q8IXL7

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

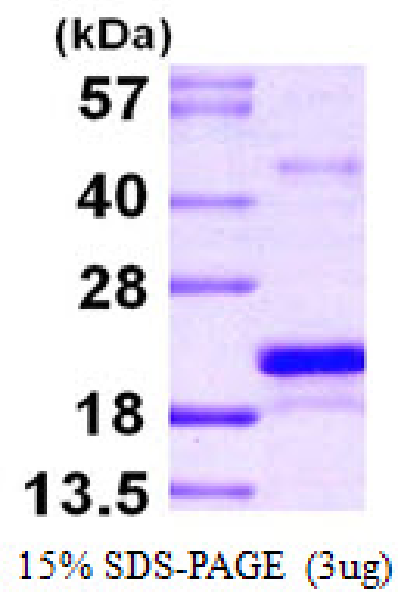
MCGLPSGSCR DKKNCKVVFS QQELRKRLTP LQYHVTQEKG TESAFEGEYT HHKDPGIYKC VVCGTPLFKS ETKFDSGSGW PSFHDVINSE AITFTDDFSY GMHRVETSCS QCGAHLGHIF DDGPRPTGKR YCINSAALSF TPADSSGTAE GGSGVASPAQ ADKAELLEHH HHHH

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.