

Recombinant human JSRP1 protein

Catalog Number: ATGP2339

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-331aa

UniProt No.

Q96MG2

NCBI Accession No.

NP_653217.1

Alternative Names

Junctional sarcoplasmic reticulum protein 1, JP-45, JP45

PRODUCT SPECIFICATION

Molecular Weight

38 kDa (354aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

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

JSRP1 is involved in excitation-contraction coupling at the sarcoplasmic reticulum. The protein can interact with CACNA1S, CACNB1, and calsequestrin to help regulate calcium influx and efflux in skeletal muscle. Recombinant human JSRP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>MSMTTRA WEELDGGLGS CQALEDHSAL AETQEDRASA TPRLADSGSV

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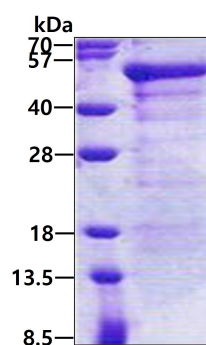
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AENDEEEEPGE ATGEAVREDR VTLADRGPK EPRREGKPRK EKPRKEERP KERPRKEERP RAAREPREAL PQRWESREGG
HRPWARDSDR AEPKQAWV SPRRPDEEQR PGRQKLRAG KGRD

General References

Yasuda T, Delbono O, et al. (2013). Hum Mutat. 34(1):184-90.

DATA

SDS-PAGE



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