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Recombinant human PRRT2 protein

Catalog Number: ATGP2531

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-268aa

UniProt No.
Q7Z6L0

NCBI Accession No.
NP_001243372

Alternative Names
Proline-rich transmembrane protein 2 isoform 3, BFIC2, BFIS2, DSPB3, DYT10, EKD1, ICCA, IFITMD1, PKC

PRODUCT SPECIFICATION

Molecular Weight
29.7 kDa (291aa) 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, 1mM DTT

Purity
> 85% 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
PRRT2 is a transmembrane protein containing a proline-rich domain in its N-terminal half. Studies in mice suggest that it is predominantly expressed in brain and spinal cord in embryonic and postnatal stages. Mutations in this gene are associated with paroxysmal kinesigenic dyskinesia. Almost one third of sporadic PKC patients also carry PRRT2 mutations. Recombinant human PRRT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

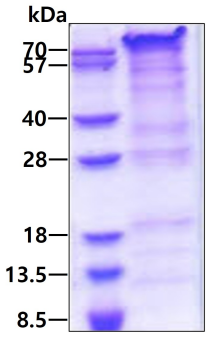
<MGSSHHHHHH SSGLVPRGSH MGS>MAASSSE ISEMKGVEES PKVPGEGPGH SEAETGPPQV LAGVPDQPEA PQPGPNTTAA PVDSGPKAGL APETTETPAG ASETAQATDL SLSPGGESKA NCSPEDPCQE TVSKPEVSKE ATADQGSRLE SAAPPEPAPE PAPQPDPRPD SQPTPKPALQ PELPTQEDPT PEILSESVGE KQENGAVVPL QAGDGEEGPA PEPHSPPSKK SPPANGAPPR VLQQLVEEDR MRRAHSGHPG SPRGSLSRHP SSQLAGPGVE GGEGTQKPRD Y

General References

Li J, Zhu X, Wang X, et al. (2012). J Med Genet. 49(2):76-8.
Chen WJ, Lin Y, et al. (2011). Nat Genet. 43(12):1252-5.

DATA

SDS-PAGE



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