

## Fragile X Mental Retardation 1 Recombinant Protein | FMR1 recombinant protein

Recombinant Fragile X Mental Retardation 1 (FMR1)

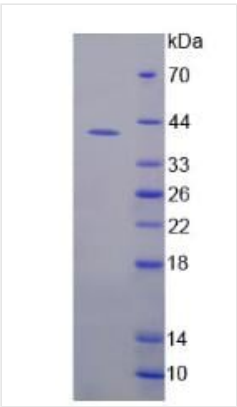
|                               |                                                           |                                                                           |
|-------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|
| CATALOG #<br><b>AAA144507</b> | HOST<br><b>Host: E ColiSource: Prokaryotic expression</b> | APPLICATIONS<br><b>Immunoprecipitation, ELISA, Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Fragile X Mental Retardation 1; Recombinant Fragile X Mental Retardation 1 (FMR1); FMR1 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Host: E Coli<br>Source: Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification                                  | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                          | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence                                             | The target protein is fused with two N-terminal Tags, His-tag and T7-tag. The sequence is listed below.<br>MEELVVEV RGSNGAFYKA FVKDVHEDSI TVAFENNWQP DRQIPFHDVR FPPVGYNKD INESDEVEVY<br>SRANEKEPCC WWLAKVRMIK GEFYVIEYAA CDATYNEIVT IERLRVSNPN KPATKDTFHK IKLDVPEDLR<br>QMCAKEAAHK DFKKAVGAFS VTYDPENYQL VILSINEVTS KRAHMLIDMH FRSLRTKLSL IMRNEEASKQ<br>LESSRQLASR FHEQFIVRED LMGLAIGTHG ANIQQARKVP GVTALDLED TCTFHIYGED QDAVKKARSF<br>LEFAEDVIQV PRNLVGKVIG KNGKLIQEIV DKSGVV                                                   |
| Sequence Length                                      | 554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for FMR1 recombinant protein | IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted Molecular Mass                             | 39.6kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Accurate Molecular Mass (KD)                         | 40kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Endotoxin                                            | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Expression System                                    | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tag                                                  | two N-terminal Tags, His-tag and S-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Organism Species                                     | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Fragment                                             | Met1~Val314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Usage                                                | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                              | Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months.<br>Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |



MEELVVEVRG SNGAFYKAFV KDVHEDSITV AFENNMQPDR QIPFHDVRFPP  
PPVGYNKDIN ESDEVEVYSR ANEKEPCCWW LAKVRMIKGE FYVIEYAACD  
ATYNEIVTIE RLRSVNPKNP ATKDTFHKIK LDVPEDLRQM CAKEAAHKDF  
KKAVGAFSVT YDPENYQLVI LSINEVTSKR AHMLIDMHFR SLRTKLSLIM  
RNEEASKQLE SSRQLASRFH EQFIVREDLM GLAIGTHGAN IQQARKVPGV  
TAIDLDEDTG TFHIYGEDQD AVKKARSFLE FAEDVIQVPR NLVGKIVIGN  
GKLIQEIVDK SGVV

Sequence

SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 582054406                              |
| NCBI GeneID                      | 2332                                   |
| Molecular Weight                 | 68,966 Da                              |
| NCBI Official Full Name          | fragile X mental retardation 1         |
| NCBI Official Synonym Full Names | fragile X mental retardation 1         |
| NCBI Official Symbol             | FMR1                                   |
| NCBI Official Synonym Symbols    | POF; FMRP; POF1; FRAXA                 |
| NCBI Protein Information         | fragile X mental retardation protein 1 |
| UniProt Protein Name             | Fragile X mental retardation protein 1 |
| UniProt Gene Name                | FMR1                                   |
| UniProt Synonym Gene Names       | FMRP; Protein FMR-1                    |
| UniProt Entry Name               | FMR1_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fmr1-recombinant-protein-e-coli-ip-immunoprecipitation-elisa-wb-western-blot-sds-page/144507>