

Recombinant Mouse AFF4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51902

Size: 10ug, 100ug

Protein Name: AF4/FMR2 family member 4

Synonym: Aff4, Alf4

UniProt ID: Q9ESC8

UniProt Link: www.uniprot.org/uniprotkb/Q9ESC8/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1160 AA

Molecular Weight: 127 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNREDRNVLRMKERERRNQEIQQGEDAFAFPSSPLFAEPYKVTSKEDKLSSRIQSM LGNYDEMKDYI
GDRSIPKLVAIPKPAVPTTTDEKANPNFFEQRHGGSHQSSKWTPVGPAPSTSQSQKRSSALQSGHS
SQRSGAGGSGASSSGQRHDRDSYSSSRKKGQH GSEHSKSRSSSPGKPQAVSSLSSSHSRSHGN
DHHSKEHQRSKSPRDPDANWDSPSRGPFSSGQHSSQSFPFSLMSKSSSMLQKPTAYVRPMDGQE
SVEPKLSSEHYSSQSHGNSMTELKPSSKAHLTKLKIPSRPLDASVSGDVSCVDEILKEMTHSWPPPL
TAIHTPCKTEPSKFPPTKESQQSNFGPGEQKRYSTAKTSNGHQSKSMLKDDLKLSSSEDSDGEQD
CDKTMPTSTPGSNSEPSHHNSEGADNSRDDSSSHSGSESSSGSDSESESSSSDSEANEPSQSAS
PEPEPPPTNKWQLDNWLNKVNPHKVSPASSVDSNIPSSQAYKKEGREQTASNYTDPGGTKETSS
ATPGRDSKTIQKGSESGRGRQKSPAQSDSTTQRRTVGKKQPKKPEKSAAEEPRGGLKIESETPVDM
AASMPSSRHKAATKGSRKPNIKKESKSSPRPTAEKKKYKSASKPSQKSREIETDTSSSDSDGSESL
PPSSQTPKYPESNRTPVKPSSVEEEDSFFRQRMFSPMEEKELLSPLSEPDDRYPLIVKIDLNLLTRIP
GKPYKETEPKGEKKNVPEKHSREVQKQASEKASNKGKRKHKNDDDDTRASESKPKTKEDKNSSGH
KPSSSRESSKQSSTKEKDLLPSPAGPILSKDSKTEHGSRKRTVSQSSSLKSSGTSSKENSGSSSKSS
SSSTAKQKKTEGKGPSSSKEAKEKAPNSSSNCPPSTPTSESSKPRRTKLAFDDRNYSADHYLQEA
KLKHNADALSDRFEKAVYYLDAVVSFIECGNALEKNAQESKSPFPMYSMTVELIKYTMKLKNYLAPDA
TAADKRLTVLCLRCQSLLYLRLFKLKKENALKYSKTLTEHLKNSYSNSQAPSPGLGSKAVGMPSVPS
PKLSPGNSGSYSSGGSSASASGSSVTIPQKIHQMAASYVQVTSNFLYATEIWDQAEQLSKEQKEFFA
ELDKVMGPLIFNASIMTDLARYTRQGLHWLRQDAKLIS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant AF4/FMR2 family member 4 produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex.

Subcellular Localization: Nucleus . Chromosome . Note=Associates to transcriptionally active chromatin but not at snRNA genes.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.