Recombinant CYFP2 protein (His tag)

Catalog Number	543368
Synonyms	p53-inducible protein 121
Species	Human
Expression System	E. coli
Accession	Q96F07
Molecular Weight	Predictes a molecular mass of 59.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 61 kDa band.

Product Information

Sequence Region	58-550
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 58-550 aa (Q96F07) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CYFIP2 (58-550) is a high-quality protein fragment of Cytoplasmic FMR1-interacting protein 2, designed for structural and biochemical studies. This 493-amino acid fragment represents a stable, soluble unit of this key regulatory protein involved in cellular apoptosis and signaling pathways. Cytoplasmic FMR1-interacting protein 2 (CYFIP2), also known as p53-inducible protein 121, plays crucial roles in T-cell adhesion and p53/TP53-dependent induction of apoptosis. As a component of the WAVE1 complex, it is essential for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes. The protein localizes primarily to the cytoplasm, particularly in perinuclear regions, and is enriched in synaptosomes. It can translocate to the nucleus under specific conditions, such as treatment with leptomycin-B. CYFIP2 does not bind RNA, distinguishing it from related proteins in its functional mechanisms.