Recombinant FEV protein (His tag)

Catalog Number	538792
Synonyms	Fifth Ewing variant protein; PC12 ETS domain-containing transcription factor 1; PC12 ETS factor 1; Pet-1
Species	Human
Expression System	E. coli
Accession	Q99581
Molecular Weight	Predictes a molecular mass of 12.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	46-136
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 46-136 aa (Q99581) 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 FEV Protein (Fragment 46-136) is a high-purity, stable fragment of the FEV (Fifth Ewing variant protein), also known as PC12 ETS factor 1 or Pet-1. This 91-amino acid fragment has been computationally optimized for solubility and structural integrity, making it an ideal tool for biochemical assays, structural studies, and research on transcriptional regulation mechanisms. The full-length FEV protein functions as a transcriptional regulator, specifically acting as a repressor according to published research (PubMed:12761502). It plays a critical role in the differentiation and maintenance of central serotonergic neurons and may contribute to cell growth processes. FEV is localized to the nucleus, consistent with its function in gene expression regulation. This recombinant fragment represents a stable, soluble unit of the protein that preserves key structural features while being optimized for experimental applications in life science research.