Recombinant TUSC2 protein (His tag)

Catalog Number	544188
Synonyms	Fusion 1 protein; Fus-1 protein; PDGFA-associated protein 2
Species	Human
Expression System	E. coli
Accession	O75896
Molecular Weight	Predictes a molecular mass of 10.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	40-110
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 40-110 aa (O75896) 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	Introducing the recombinant TUSC2 (Tumor suppressor candidate 2) fragment (residues 40-110), a 71-amino acid protein segment derived from human Fus-1 protein. This fragment is engineered for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and cancer research applications. The full-length TUSC2 protein, also known as Fus-1 or PDGFA-associated protein 2, functions as a tumor suppressor in human cells. It inhibits colony formation, induces G1 cell cycle arrest, and promotes apoptosis, particularly in cells with deletions in the 3p21.3 chromosomal region. This makes TUSC2 a significant protein in cancer biology research, with potential implications for understanding tumor suppression mechanisms.