Recombinant FNDC1 protein (His tag)

Catalog Number	545108
Synonyms	Activation-associated cDNA protein; Expressed in synovial lining protein
Species	Human
Expression System	E. coli
Accession	Q4ZHG4
Molecular Weight	Predictes a molecular mass of 48.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	38-456
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 38-456 aa (Q4ZHG4) 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 FNDC1 Fragment (38-456) - A high-quality recombinant protein encompassing three complete fibronectin type-III domains (1-3) of Fibronectin type III domain-containing protein 1, designed for studying G protein signaling activation mechanisms. Fibronectin type III domain-containing protein 1 (FNDC1) functions as an activator of G protein signaling, playing a crucial role in cellular signaling pathways. The protein is secreted into the extracellular space, where it can interact with cell surface receptors and modulate intracellular signaling cascades. This secreted nature suggests FNDC1 may function as an extracellular signaling molecule or modulator of cell-cell communication. The fibronectin type-III domains contained within this recombinant fragment are essential structural elements that likely mediate protein-protein interactions critical for its signaling activation function.