Recombinant MAGI1 protein (His tag)

Catalog Number	548043
Synonyms	Atrophin-1-interacting protein 3; AIP-3; BAI1-associated protein 1; BAP-1; Membrane-associated guanylate kinase inverted 1; MAGI-1; Trinucleotide repeat-containing gene 19 protein; WW domain-containing protein 3; WWP3
Species	Human
Expression System	E. coli
Accession	Q96QZ7
Molecular Weight	Predictes a molecular mass of 23.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-197
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 1-197 aa (Q96QZ7) 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 MAGI1 (Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1) fragment (amino acids 1-197), encompassing the complete PDZ 1 domain. This high-purity protein is an essential tool for investigating domain-specific interactions and functions in cell junction regulation and signaling pathways. The full-length MAGI1 protein plays a critical role in coupling actin fibers to cell junctions in endothelial cells through interactions with proteins such as AMOTL2 and CDH5. It also modulates acid-induced ASIC3 currents by regulating its cell surface expression. MAGI1 localizes primarily to tight junctions in epithelial cells and is found at the cell membrane as a peripheral membrane protein, highlighting its importance in cellular adhesion and membrane-associated signaling complexes. This recombinant fragment enables focused study of the PDZ 1 domain's contribution to these biological processes.