Recombinant DAB2P protein (His tag)

Catalog Number	545175
Synonyms	DAB2 interaction protein; DAB2-interacting protein; ASK-interacting protein 1; AIP-1; DOC-2/DAB-2 interactive protein
Species	Human
Expression System	E. coli
Accession	Q5VWQ8
Molecular Weight	Predictes a molecular mass of 23.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1005-1189
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 1005-1189 aa (Q5VWQ8) 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 DAB2IP Fragment (aa 1005-1189) - A highly stable and soluble protein fragment ideal for structural studies and biochemical characterization of this multifunctional scaffold protein involved in critical signaling pathways including inflammation, apoptosis, and cell cycle regulation. Disabled homolog 2-interacting protein (DAB2IP) is a multifunctional scaffold protein that regulates a broad spectrum of signaling pathways, including innate immune response, inflammation, cell growth inhibition, apoptosis, cell survival, angiogenesis, and cell migration. It functions as a key modulator balancing phosphatidylinositol 3-kinase (PI3K)-AKT-mediated cell survival and MAP3K5-JNK signaling pathways in response to pro-inflammatory stimuli. The protein also acts as a GTPase-activating protein for ARF6, Ras, and RAB40C, and serves as a tumor suppressor in prostate cancer progression by preventing cell proliferation and epithelial-to-mesenchymal transition. DAB2IP localizes primarily to the cytoplasm and cell membrane as a peripheral membrane protein, with additional presence in dendrites and proximity to lipid droplets. Its membrane localization is dependent on phosphatidylinositol 4-phosphate binding, and it translocates from the plasma membrane to the cytoplasm in response to TNF-alpha stimulation.