Recombinant E41L3 protein (His tag)

Catalog Number	548557
Synonyms	4.1B; Differentially expressed in adenocarcinoma of the lung protein 1; DAL-1; Erythrocyte membrane protein band 4.1-like 3
Species	Human
Expression System	E. coli
Accession	Q9Y2J2
Molecular Weight	Predictes a molecular mass of 39.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	108-433
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 108-433 aa (Q9Y2J2) 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 Band 4.1-like protein 3 (4.1B/DAL-1) Fragment (aa 108-433) is a high-purity protein designed for cancer and cell biology research. This fragment fully encompasses the FERM domain, making it an ideal tool for investigating domain-specific functions related to tumor suppression, cell proliferation, and apoptosis regulation. Band 4.1-like protein 3 (EPB41L3) is a well-characterized tumor suppressor that inhibits cell proliferation and promotes apoptosis. It functions by modulating the activity of protein arginine N-methyltransferases, including PRMT3 and PRMT5, which are involved in key cellular processes. The protein localizes to multiple cellular compartments including the cytoplasm, cytoskeleton, cell junctions, and cell membrane (as a peripheral membrane protein on the cytoplasmic side), with particular abundance in the cytoplasm of actively dividing cells. Its role in differentially expressed in adenocarcinoma of the lung (DAL-1) highlights its significance in cancer research and therapeutic development.