Recombinant DERM protein (His tag)

Catalog Number	549474
Synonyms	Tyrosine-rich acidic matrix protein; TRAMP
Species	Human
Expression System	E. coli
Accession	Q07507
Molecular Weight	Predictes a molecular mass of 21.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	37-201
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 37-201 aa (Q07507) 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 Dermatopontin Fragment (aa 37-201) - a highly soluble and stable protein fragment ideal for structural and functional studies of this important extracellular matrix protein involved in cell adhesion, TGFB1 regulation, and collagen fibril organization. Dermatopontin, also known as Tyrosine-rich acidic matrix protein (TRAMP), is a secreted extracellular matrix protein that mediates cellular adhesion through integrin binding, serving as a communication link between dermal fibroblasts and their extracellular environment. This protein plays crucial roles in enhancing TGFB1 activity, inhibiting cell proliferation, and accelerating and stabilizing collagen fibril formation against low-temperature dissociation. As an extracellular matrix component, Dermatopontin contributes significantly to tissue organization and cellular signaling processes in human biology.