Recombinant MXRA8 protein (His tag)

Catalog Number	545798
Synonyms	Limitrin
Species	Human
Expression System	E. coli
Accession	Q9BRK3
Molecular Weight	Predictes a molecular mass of 32.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	20-296
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 20-296 aa (Q9BRK3) 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 Matrix remodeling-associated protein 8 (MXRA8) fragment (aa 20-296), encompassing the complete Ig-like V-type domains 1 and 2. This high-purity protein is an essential tool for investigating cell signaling modulation, chondrocyte maturation, angiogenesis regulation, and alphavirus pathogenesis mechanisms in vitro. Matrix remodeling-associated protein 8 (MXRA8/Limitrin) is a transmembrane protein that modulates multiple signaling pathways through binding to integrin ITGAV:ITGB3. It plays critical roles in osteoclastogenesis inhibition, cartilage formation by promoting chondrocyte proliferation and maturation, angiogenesis regulation through endothelial cell migration suppression and apoptosis promotion, and blood-brain barrier maintenance. The protein localizes primarily to the cell membrane, with additional presence in tight junctions, cilia membranes, cytoplasm, and nucleus. Notably, MXRA8 serves as a receptor for arthritogenic alphaviruses, contributing to viral pathogenesis. The provided fragment (aa 20-296) contains the complete Ig-like V-type domains that mediate these diverse functional interactions.