Recombinant MADCA protein (His tag)

Catalog Number	547265
Synonyms	MAdCAM-1; hMAdCAM-1
Species	Human
Expression System	E. coli
Accession	Q13477
Molecular Weight	Predictes a molecular mass of 23.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	19-226
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 19-226 aa (Q13477) 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	Explore our high-quality recombinant protein fragment of Human Mucosal addressin cell adhesion molecule 1 (MAdCAM-1), spanning amino acids 19-226. This fragment includes the Ig-like 1 domain, making it an ideal reagent for studying leukocyte adhesion and trafficking mechanisms in mucosal tissues. MAdCAM-1 is a key cell adhesion receptor expressed on mucosal venules, playing a critical role in directing lymphocyte migration to mucosal tissues such as Peyer's patches and the intestinal lamina propria. It mediates leukocyte homing by binding to integrin alpha-4/beta-7 and L-selectin, thereby regulating both the passage and retention of immune cells. As a single-pass type I membrane protein, MAdCAM-1 is anchored in the cell membrane, where it facilitates specific interactions essential for mucosal immunity. The full-length protein's function includes supporting integrin-dependent adhesion strengthening, highlighting its importance in immune surveillance and inflammatory responses.