

## Product datasheet for **TP726774**

### Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Human MAdCAM-1 (C-6His)
<b>Species:</b>	Human
<b>Expression cDNA Clone or AA Sequence:</b>	Gln19-Gln333
<b>Tag:</b>	C-6His
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
<b>Note:</b>	Recombinant Human MAdCAM1 is produced by our Mammalian expression system and the target gene encoding Gln19-Gln333 is expressed with a 6His tag at the C-terminus.
<b>Storage:</b>	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
<b>Stability:</b>	12 months from date of despatch
<b>Synonyms:</b>	hMAdCAM-1; MACAM1; MAdCAM1; MAdCAM-1; mucosal addressin cell adhesion molecule 1
<b>Summary:</b>	Mucosal addressin cell adhesion molecule-1 (MAdCAM-1) is an approximately 60 kDa type 1 transmembrane glycoprotein. It is an endothelial cell adhesion molecule that belongs to the immunoglobulin (Ig) superfamily of proteins. The Ig domains of MAdCAM-1 are critical to alpha (4) beta (7) binding, and the mucin domain has activity in L Selectin binding. MAdCAM-1 expression is up-regulated by TNF-alpha and IL 1 beta. Mucosal addressin cell adhesion molecule (MAdCAM-1) plays a pivotal role in T-lymphocyte homing to the gut. MAdCAM 1 expression is also dramatically increased in chronic inflammatory and disease states, including inflammatory bowel disease (Crohn's disease and ulcerative colitis), sclerosing cholangitis, and diabetes, and may play an important role in these conditions.



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