



What is A2M (a-2-Macroglobulin)?

Alpha-2-macroglobulin (A2M) is a plasma protein and is found in significant quantities in the blood. A2M has been described as a broad spectrum multi-purpose protease inhibitor. This means that it is able to inactivate a variety of proteinases that are known to degrade cartilage.¹⁻²

Osteoarthritis (OA) is in part due to the diseased joint overproducing several chemicals that slowly erode cartilage. By inhibiting these chemicals (proteases), alpha-2macroglobulin can stop the progression of OA by preventing the cartilage from breaking down and avoiding cartilage loss, which improves joint function and decreases pain.

A2M Therapy

OA is a common health problem that can cause knee pain. Temporary relief from the pain caused by OA can generally be achieved with non-surgical treatment options such as NSAIDs, cortisone and viscosupplementation (HA), but relief is only temporary while the root causes of osteoarthritis remain.

Fo long term relief of OA symptoms, a highly concentrated injection of alpha-2-macroglobulin can impact the progression of the disease. Alpha-2-macroglobulin binds to the chemicals produced in the joints that degrade cartilage and neutralizes their degenerative effect in a dose dependent manner².



MEDICAL

Alpha-2-Macroglobulin (A2M) can:

- Mitigate the progression of osteoarthritis
- Reduce the pain caused by osteoarthritis
- Improve joint function
- Promote healing and repair
- Support the restoration of affected joint(s)
- Stop the breakdown of cartilage and prevent cartilage loss

ASK YOUR DOCTOR TODAY IF A2M THERAPY IS RIGHT FOR YOU.

1. Wang, S., Wei, X., Zhou, J., Zhang, J., et. al. "Identification of a2-Macroglobulin as a Master Inhibitor of Cartilage-Degrading Factors that Attenuates the Progression of Posttraumatic Osteoarthritis." Arthritis & Rheumatology 66.7 (2014): 1843-1853

2. Luan,Y., Kong, L., Howell, D., et al. "Inhibition of ADAMTS-7 and ADAMTS-12 Degradation of Cartilage Oligomeric Matrix Protein by Alpha-2-Macroglobulin." Osteoarthristis Cartilage 16.11 (2008): 1413-1420

TEL - 888.392.5076 FAX - 888.392.1455 WEB - PLYMOUTHMEDICAL.COM PLYMOUTH MEDICAL 135 PLYMOUTH ST, SUITE 410 BROOKLYN, NY 11201

COPYRIGHT © 2021 PLYMOUTH MEDICAL LLC. ALL RIGHTS RESERVED.