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Zuschläge

- Mindermengenzuschlag
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Human Alpha-2 Macroglobulin Protein (A2M)

CLPRO551
CLPRO551-2
CLPRO551-3
Lot: 517PA2M03

Introduction: Alpha-2 Macroglobulin is a serine proteases inhibitor, which inhibits coagulation by inactivating thrombin and Kallikrein, it inhibits fibrinolysis by inactivating plasmin and involved in insulin transport. Alpha-2-Macroglobulin is a large plasma protein, which is produced by the liver, it's composed of 4 identical subunits bound together by -S-S- bonds. A2M is able to inactivate many kinds of proteinases (including serine-, cysteine-, aspartic- and metalloproteinases). α 2M has a 35 amino acid "bait" region in its structure. Proteinases bind and cleave the "bait" region become bound to α 2M. Macrophage receptors recognize the proteinase- α 2M complex and clear it from the system. A2M binds to and removes MMP-2 and MMP-9 (active forms of the gelatinase) from the circulation using scavenger receptors on the phagocytes. The levels of Alpha-2-macroglobulin are increased in nephrotic syndrome which is a condition where the kidneys start to leak out some of the smaller blood proteins. Due to its large size, α 2-macroglobulin is retained in the bloodstream. Increased production of all proteins causes α 2-macroglobulin concentration to increase. Chronic renal failure might lead to amyloid by alpha-2-macroglobulin. A2M is raised in cirrhosis, pregnancy and diabetes.

Description: Human Alpha-2 Macroglobulin is a tetrameric glycoprotein, produced in human plasma and having a molecular mass of 725 kDa.

Synonyms: Alpha-2-macroglobulin, Alpha-2-M, A2M, CPAMD5, FWP007, S863-7, alpha 2M, DKFZp779B086.

Source: Human plasma

Presentation: 200 μ g (**CLPRO551**), 1 mg (**CLPRO551-2**), or 10 mg (**CLPRO551-3**), sterile filtered white lyophilized (freeze-dried) powder. Lyophilized from 0.02 M TRIS, 0.15 M NaCl and 0.1 M sucrose, pH 8.0.

Stability: Human Alpha-2 Macroglobulin although stable at room temperature for 3 weeks, should be stored between 2-8°C.

Purity: Greater than 96.0 %.

Human Virus Test: Serum from each donor has been tested and found negative for antibody to HIV-1, HIV-2, HCV, HBSAG

Laboratory Reagent For Research Use Only

MW 10/31/17

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