

Active Native Human α -Macroglobulin

Cat. No. a-Macroglobulin-535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human α -Macroglobulin was purified from human plasma.
Species	Human
Source	Human Plasma
Description	α 2-Macroglobulin, also known as α 2-macroglobulin and abbreviated as α 2M and A2M, is a large plasma protein found in the blood. It is produced by the liver, and is a major component of the alpha-2 band in protein electrophoresis.
Form	Lyophilized from 0.02 M Tris, 0.13 M glycine, pH 8.0, and 0.08 M trehalose
Bio-activity	This product is a preparation of the intact protein with proteolytic inhibitory activity. One mg of protein will inhibit a minimum of 10 mg of trypsin with an activity of 10,000 BAEE units/mg protein.
Molecular Mass	mol wt ~720 kDa (four glycoprotein subunits)
Purity	≥98% (SDS-PAGE)
Applications	Inhibits all classes of endoproteases by forming a complex with the protease. When the protease cleaves the macroglobulin sequence, the macroglobulin rearranges and traps the protease.
Notes	Plasma from each donor has been tested and found negative for antibody to HIV-

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1/HIV-2, antibody to HCV and HbSAg.

Storage

The lyophilized powder is stable for at least 2 years when stored at -20 °C.

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