Human A2M/Alpha-2-macroglobulin ELISA Kit

E45K00226

Catalog Number:E45K00226

Species Reactivity: Human

Storage: Store at +4°C. Please refer to protocols.

Cite ID#:EN5520677

Type: Human ELISA Kits

Description: Human A2M/Alpha-2-macroglobulin ELISA Kit is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit designed for the quantitative measurement of A2M in biological samples. Our rigorously validated, ready-to-go Human A2M/Alpha-2-macroglobulin ELISA Kit use a simple protocol that easily integrates into your current processes, allowing you to rapidly and accurately detect A2M in your samples. Appropriate sample types may include Cell Culture Supernates, Serum, Platelet-poor EDTA Plasma, Platelet-poor Heparin Plasma, Urine. Precision Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested several times on one plate to assess intra-assay precision. Inter-Assay Precision (Precision between assays): Three samples of known concentration were tested in several separate assays to assess inter-assay precision. Assays were performed by at least two technicians using two lots of components.

Assay type: Sandwich

Detection principle: Spectrophotometrical

Sample type: This immunoassay kit allows for the in vitro quantitative determination in Serum, plasma, tissue homogenates, cell culture supernates and other biological fluids.

Sensitivity:3.9 ng/mL

Assay range:7.8-500 ng/mL

Kit components: Assay Plate, Standard, Sample Diluent, Assay Diluent A&B, Detection Reagent A&B, Wash Buffer, Substrate, Stop Solution.

Other reagents required: Deionized or distilled water

Gene Name:A2M

Swiss-Prot No.:P01023

Function: Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide

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stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region, a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.

Form:ELISA Kits

Synonyms: Alpha-2-M,C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5,CPAMD5,FWP007