CREATIVE BIOMART®
Assay Kit

CP Colorimetric Assay Kit

Product Information

Cat.No. Kit-0257

Product Overview

CP Assay Kit (Colorimetric) is used for measuring ceruloplasmin activity using colorimetric methods.

Description

Ceruloplasmin is a copper containing protein found primarily in the blood. It carries approximately 70% of the total copper present in the blood. Ceruloplasmin exhibits a weak oxidase activity, which is a more accurate method of assessing ceruloplasmin in serum than immunodiffusion or other non-enzymatic assays. Normal Ceruloplasmin levels are generally 1-4 µM (15-60 mg/dl), equivalent to approximately 50-150 mU/ml. Elevated amounts of serum ceruloplasmin are found in pregnancy, cancer, rheumatoid arthritis and in several mental conditions such as Alzheimer''s, schizophrenia and OCD. Abnormally low amounts are found in Wilson''s and Menkes'' Diseases and in several other rare conditions. CP Assay Kit (Colorimetric) utilizes an oxidase substrate, which gives an intensely colored product upon oxidation. The kit is fast, easy to use and suitable for high throughput applications and can measure ceruloplasmin activity in serum in the range between approximately 5 and 500 mU/ml.

Applications

Cancer researchNeurodegenerative disease researchAutoimmune disease research

Usage

For research use only (RUO)

Storage

Store kit at 4°C, protected from light. Briefly centrifuge small vials prior to opening. Since this is an enzyme assay, it should be temperature controlled. Set the plate reader to 25°C and place the Ceruloplasmin Assay Buffer into a water bath set at 25°C for 30 min. prior to use.

Kit Components

Ceruloplasmin Assay Buffer 25 mlAmmonium Sulfate, saturated (~4.1M) 10 mlCeruloplasmin Substrate 1 mlOxidizer (100 mM) 100 μlStabilizer 100 μl

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Detection method	Colorimetric
Compatible Sample Types	
Serum	

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