Ceruloplasmin (human plasma)

Serum copper transport protein

Serum copper transport and iron-oxidizing protein. Expressed in plasma at concentrations of 1-5µM. Contains six copper centers and is known to oxidize amines in a process coupled to the reduction of molecular oxygen. Has ferroxidase activity that is responsible for the oxidation of ferrous iron to its ferric form, which is necessary for efficient iron efflux from the cell (e.g. during hypoxia). Has previously been considered a target for nitric oxide (NO) and an inhibitor of endothelial nitric oxide synthase (eNOS/NOS III). Catalyzes S-nitrosothiol formation in cell culture media. Is a NO oxidase and nitrite synthase that determines endocrine NO homeostasis.

Citations: 16 View Online »

Ordering Information

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ALX-200-089-M001	1mg

Manuals, SDS & CofA

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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Ferroxidase
CAS	9031-37-2
Formulation	Lyophilized from 50mM potassium phosphate, pH 6.8, containing 100mM potassium chloride, 20mM ε-aminocaproic acid and 5mM EDTA.
MI	**14:** 2006
MW	~134kDa
Purity	≥95% (SDS-PAGE)
Purity Detail	Plasma has been tested negative for HBsAg and for antibodies to HIV and HCV.
Reconstitution	Reconstitute with distilled water.
Source	Isolated from human plasma.
UniProt ID	P00450

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