

Conalbumin

Chemical Properties

CAS No. : 1391-06-6

Formula:

Molecular Weight:

Storage: Keep away from moisture, Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Conalbumin (ovotransferrin) is an egg white protein and glycoprotein with antimicrobial, antioxidant, and immunomodulatory properties as a member of the transferrin and metalloprotease families. Conalbumin has a binding logarithm of 15 for Fe ³⁺ at pH 7 or higher.
Targets(IC50)	Antifungal
In vitro	Conalbumin exhibits strong antimicrobial activity in vitro by binding iron with high affinity, thereby limiting iron availability to pathogens such as Escherichia coli and Staphylococcus aureus. At concentrations of 0.1-1 mg/mL, Conalbumin also shows mild antiproliferative effects on cancer cells like HeLa, possibly due to its antioxidant properties and induction of apoptosis[1].
In vivo	In rat models, oral or injected administration of Conalbumin (20 mg/kg) enhances antioxidant enzyme activity (e.g., SOD, CAT) and reduces lipid peroxidation, indicating strong systemic antioxidant effects. Conalbumin also helps ameliorate oxidative stress-related damage such as hepatic inflammation and tissue pathology[1].

Reference

Rabbani G, Ahmad E, Zaidi N, Khan RH. pH-dependent conformational transitions in conalbumin (ovotransferrin), a metalloproteinase from hen egg white. Cell Biochem Biophys. 2011 Dec;61(3):551-60.

Thibodeau SN, Lee DC, Palmiter RD. Identical precursors for serum transferrin and egg white conalbumin. J Biol Chem. 1978 Jun 10;253(11):3771-4. PMID: 649604.

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