

Ovalbumin (low endotoxin)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ovalbumin (low endotoxin) is a major egg white protein, processed to contain low endotoxin levels, used as a model antigen in immunological research to study allergic reactions or vaccines, and can also be used to construct asthma models.
Targets(IC50)	Others
In vivo	<p>Ovalbumin (low endotoxin) via intraperitoneal injection (100 µg once weekly) in combination with an aluminum hydroxide adjuvant (2.25 mg) successfully induced a Th2-type immune response, eosinophil infiltration, airway hyperresponsiveness, and elevated levels of specific antibodies in mice (BALB/c mice, female, 6-8 weeks old) successfully induced a human allergic asthma model characterized by a Th2-type immune response, eosinophil infiltration, airway hyperresponsiveness, and elevated levels of specific antibodies.</p> <p>Ovalbumin (low endotoxin) was administered via intraperitoneal injection (20 mg/kg, every other day) combined with nebulized inhalation, successfully inducing a human allergic asthma model in rats (SD rats, male, 4 weeks old) characterized by Th2-type immune responses, eosinophil infiltration, airway hyperresponsiveness, and elevated levels of specific antibodies [1].</p>

Reference

- Heejae Han, et al. Toxic and adjuvant effects of silica nanoparticles on ovalbumin-induced allergic airway inflammation in mice. *Respir Res.* 2016 May 18;17(1):60.
- Wang J, et al. Interleukin-22 attenuates allergic airway inflammation in ovalbumin-induced asthma mouse model. *BMC Pulm Med.* 2021 Nov 26;21(1):385.
- He Y, et al. Jieyu Guben decoction alleviates combined allergic rhinitis and asthma syndrome by balancing Th17/Treg expression and restoring PPAR δ . *Phytomedicine.* 2025 Apr;139:156508.

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