Data Sheet (Cat.No.T64744)

TargetMol

Ovalbumin

Chemical Properties

CAS No. :	9006-59-1
Formula:	C16H26O5
Molecular Weight:	298.379
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 is a protein extracted from egg white, synthesized in the fallopian tubes following estrogen or progesterone treatment, exhibiting hypotensive, antibacterial, anticancer, antioxidant, and immunomodulatory activities.
Targets(IC50)	Endogenous Metabolite
In vivo	**METHODS**: To study the effect of Ovalbumin on inflammation, 1 mg/kg of Ovalbumin and Silica nanoparticles (SNP) (SNP/OVA) were administered intranasally to female BALB/c mouse models for 2 weeks, a total of 6 times. **RESULTS**: Combined administration can significantly trigger allergic airway inflammation, resulting in a significant increase in the total number of cells, macrophages, neutrophils, eosinophils, and lymphocytes. [1]

Solubility Information

Solubility	DMSO: 1.39 mg/mL (4.66 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: 33.00 mg/mL (110.60 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3514 mL	16.7572 mL	33.5143 mL
5 mM	0.6703 mL	3.3514 mL	6.7029 mL
10 mM	0.3351 mL	1.6757 mL	3.3514 mL
50 mM	0.067 mL	0.3351 mL	0.6703 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Han H, 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.