
Product Data Sheet

Product Name: OVA mRNA (5'CAP)

Cat. No.: GM10011

Chemical Properties

Purity	>98%	Extinction Coefficient	
Formula		M.Wt	
Salt Form		Concentration	1mg/mL
Buffer	1 mM Sodium Citrate, pH 6.4	Storage	-40°C or below
Synonyms		Backbone	
Base Analog		Sugar Type	
Nucleotide Category			

Background

Ovalbumin (OVA) is a member of the chromoprotein superfamily and the main protein component in egg white. OVA is a glycoprotein with a molecular weight of approximately 45,000 daltons, which can induce moderate immunity in the body and is a commonly used antigen in immune and biochemical research. Ovalbumin is often used as an immunogen for immune experiments, such as the establishment of animal models such as altitude sickness and asthma. OVA mRNA can express proteins directly in the cytoplasm without relying on a promoter. The protein expression speed is faster than transfected DNA. The protein expression level is directly related to the transfection amount of mRNA, and there is no risk of gene integration.

OVA mRNA is produced through in vitro transcription. By simulating the mRNA processing process in eukaryotes, the product has a Cap 1 cap structure at the 5' end and a poly(A) tail at the 3' end, which can reduce the immune response of the host cell and increase the amount of mRNA. stability and translation efficiency [1].

References:

[1]. Jemielity J, Fowler T, Zuberek J, et al. Novel "anti-reverse" cap analogs with superior

Caution: Product has not been fully validated for medical applications. For research use only.

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translational properties. RNA. 2003;9(9):1108-1122.

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