

hOvalbumin: Cationized with Hexamethylenediamine

Catalog Number:	5606
Size:	10 mg
Molecular Weight:	44 kD
Solubility:	Soluble in water, giving a clear or yellowish solution.
Description:	<p>hOvalbumin is prepared by treating the native ovalbumin with hexamethylenediamines that replace most of negatively-charged carboxyl groups with positively-charged primary amines, resulting a highly positively-charged hOvalbumin. The cationization significantly increases the immunogenicity compared to native ovalbumin. In addition, the increased number of primary amines provides more conjugation sites available for hapten molecules with general conjugation methods. The modification of ovalbumin with hexamethylenediamine provides a longer space between the carrier protein and the hapten.</p>
Storage/Stability:	Store at -20°C/1 year
Format:	Lyophilized in PBS, pH 7.2.
Immunogen:	Use as a carrier protein for immunization
Purification:	Ovalbumin is purified by a fractionation method, and is supplied with the purity over 97% by SDS.
Applications:	<p>hOvalbumin itself acts an excellent immnogen with a greater immunogenicity compared to the native ovalbumin. With increased number of free amines, more antigen molecules can be coupled to hOvalbumin. When a stronger immunogenicity and a high concentration of hapten are needed, hOvalbumin is a good choice for the immunogen preparation of small hapten molecules, particularly for a longer space between the carrier protein and the hapten.</p>
References:	<p>Sheng-Liang Deng, Ping Li, Hong-Bin Liu, Shu-Ming Yang (2014) Preparation and characterization of ultrasensitive and specific polyclonal antiserum against ciprofloxacin based on cationized bovine serum albumin. Chemical Papers 68 (11) 1505–1513.</p>