Cationic Bovine Serum Albumin (cBSA)

Catalog # 9058

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DESCRIPTION:	Chemically modified cationic bovine serum albumin
APPLICATION:	Use as an immunizing antigen for Immune Complex-Induced Glomerulonephritis (ICGN) in Balb/c and ICR mice.
QUANTITY:	20 mg (2 mg/ml in 0.05M phosphate buffered saline pH 7.4, 10 ml)
FORM:	Solution
PROTOCOL:	Inducing ICGN in mice by immunizing with cationic BSA:

Animals:	Balb/c and ICR mice (males or females, 7-8 weeks or older). Sensitivity to ICGN may vary depending on the strain of mice, animal vendor, or facility.
Emulsion:	Make an emulsion using 2 mg/ml of cBSA with an equal volume of complete Freund's adjuvant (Cat # 7008 - *M. Tuberculosis*, 1 mg/ml).
Immunization:	Inject 0.1 ml of the emulsion (cBSA: 0.1 mg), subcutaneously at the base of the mouse tail.
Induction of nephritis:	Two weeks after the immunization, inject 0.2 ml (400 µg) of cBSA (2 mg/ml) solution intravenously. Repeat the IV injections every other day, for a total of five IV injections. NOTE: cBSA IV injections may cause anaphylaxis reactions, which are lethal in mice. To avoid this problem, use slow IV injection (1 ml/minute) or lower cBSA doses and concentrations. Dilute cBSA to an appropriate concentration with PBS. Then use 50 - 100 µg (0.5 -1 ml of 0.1 mg/ml cBSA) for the first injection and 400 µg (1 ml of 0.4 mg/ml cBSA) for the second to fifth injections.
Evaluating nephritis:	Evaluate the severity of nephritis by determining the amount of albumin excreted during a 16-hour urine collection (albuminuria). Chondrex Inc.'s Mouse Albumin Detection ELISA Kit (Cat # 3012) is recommended.

STORAGE:	-20°C in the dark
STABILITY:	1 year
NOTES:	N/A
REFERENCES:	N/A

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