

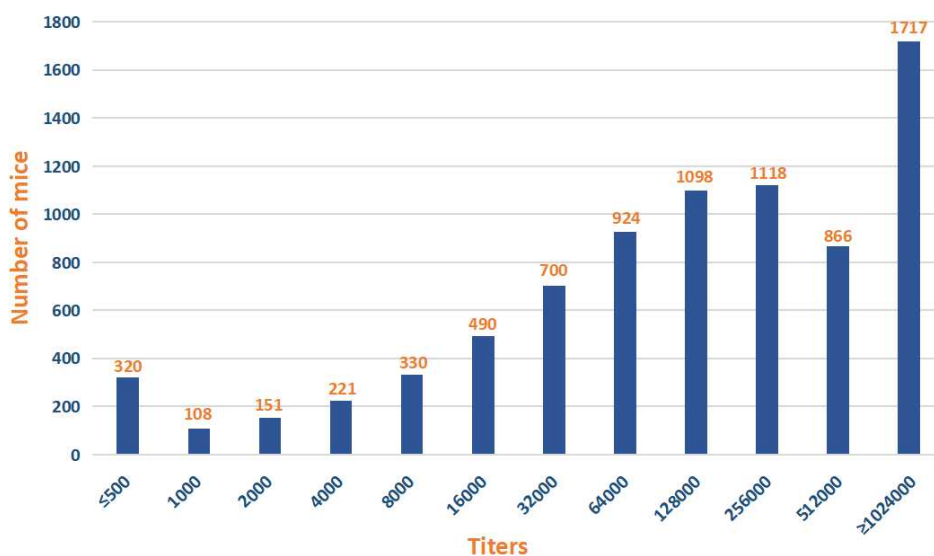
Description

This adjuvant is a pH-neutral, thick solution and its main component is a high molecular polymer with strong hydrophilic groups on its side chains, which makes the product miscible with aqueous solutions and eliminates the need for emulsification during use. The hydrophobicity of its main chain allows it to bind to protein antigens (including protein-coupled peptides or small molecule compounds) and keep the protein structure unaffected. Therefore the bound antigens can be released slowly after injection into the animals, thus achieving the gradual stimulation of the immune system.

This adjuvant is non-toxic and non-immunogenic, so the animal is healthy after immunization (unless the antigen itself is toxic), it will not induce granulomas, and the animal will not produce antibodies against the adjuvant itself.

The immunizing effect of this adjuvant is similar to or slightly stronger than that of Freund's adjuvant, but the toxicity is much lower.

We have immunized more than 8000 BALB/c mice with this adjuvant and successfully developed high quality monoclonal antibodies against more than 2,000 antigens for Western blot, IHC, IF, IP, Neutralization, Indirect ELISA, and Sandwich ELISA. The serum titers of these mice were distributed as follows:



The serum titers distribution of 8043 BALB/c mice immunized by our company (Cut-off OD=0.3) was based on the fact that the mice were raised in SPF environment, and 90% of the immunized antigens were recombinant proteins and 10% were peptides coupled with carriers. A total of 3 injections were given in a 48-day cycle.

Package

1 mL; 2 mL; 10×1 mL; 10×2 mL

Storage

Temperature has little effect on the preservation of this product, it can be stored between 4-40°C prior to opening, preservation period of 5 years. Once opening the lid, please put it at 4°C to prevent the growth of bacteria, and it is best to use it up within one month. If it can not be used up within one month, it is recommended to take it aseptically each time or divide it into several tubes, or you can cover the lid after taking it and heat it at 56°C for half an hour, and then put it at 4°C again after cooling naturally.

Cautions

1. This adjuvant is more effective in mice and slightly less effective in rabbits or other animals.
2. Before immunization, please make sure the antigen is not toxic to animals. The antigen buffer does not contain harmful ingredients such as guanidine hydrochloride, detergents, etc., but it can contain urea below 4 M. The buffering capacity of this adjuvant is stronger than that of PBS, please make sure that the pH of the antigen solution is between 5 and 9, so that it can be buffered to neutral after mixing with the adjuvant.
3. Divalent metal ions such as Fe²⁺, Mg²⁺, Mn²⁺, Cu²⁺, and Ca²⁺ may affect the stability of this adjuvant and may form precipitations, so it is preferable not to contain a high concentration of divalent metal ions in the antigen (not higher than 1 mM).
4. Too small a volume of antigen in an immunization may be lost during manipulation due to container adsorption, and too large a volume may result in slow release of antigen which may lead to low titer.
5. When opening the cap, please follow the direction of the arrow, and operate carefully to prevent the aluminum cap from scratching your hands.

For technical support and original validation data for this product please contact

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