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Complete Freund's adjuvant (CFA, 1 mg/ml)

Cat. No.:	HY-153808B	
CAS No.:	9007-81-2	
Target:	Toll-like Receptor (TLR)	
Pathway:	Immunology/Inflammation	Complete Freund's adjuvant (CFA, 1 mg/ml)
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description	Complete Freund's adjuvant (CFA, 1 mg/ml) is an immunoadjuvant emulsified with antigen that can enhance an animal's immune response to an antigen. Complete Freund's adjuvant (CFA, 1 mg/ml) is also an inducer of the Th1 immune response and a ligand of TLRs. Complete Freund's adjuvant (CFA, 1 mg/ml) contains heat-killed inactive tuberculosis bacilli and consists of a paraffin oil-in-water emulsion. Complete Freund's adjuvant (CFA, 1 mg/ml) stimulates a strong and durable immune response and can be used to induce rheumatoid arthritis in rats, and more ^{[1][2][3]} .								
In Vivo	<p>Complete Freund's adjuvant (1 mg/ml, 0.1 mL; s.c.; once a day for two days) can be used to induce rheumatoid arthritis in Sprague-Dawley rats^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Sprague-Dawley rats^[3]</td> </tr> <tr> <td>Dosage:</td> <td>1 mg/ml, 0.1 mL</td> </tr> <tr> <td>Administration:</td> <td>s.c.; once a day for two days</td> </tr> <tr> <td>Result:</td> <td> Increased the index of thymus and spleen. Decreased the activities of GSH, CAT, SOD and MPO. Increased the level of IL-1β, IL-6, IL-17, MCP-1, TNF-α, COX-2, 5-LOX, NF-p65, IgG1 and IgG2a. Reduced level of IL-10. </td> </tr> </table>	Animal Model:	Sprague-Dawley rats ^[3]	Dosage:	1 mg/ml, 0.1 mL	Administration:	s.c.; once a day for two days	Result:	Increased the index of thymus and spleen. Decreased the activities of GSH, CAT, SOD and MPO. Increased the level of IL-1 β , IL-6, IL-17, MCP-1, TNF- α , COX-2, 5-LOX, NF-p65, IgG1 and IgG2a. Reduced level of IL-10.
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REFERENCES

- [1]. Weng W, et al. Protective effect of Corynoline on the CFA induced Rheumatoid arthritis via attenuation of oxidative and inflammatory mediators. *Mol Cell Biochem.* 2021 Feb;476(2):831-839.
- [2]. Fontes JA, et al. Complete Freund's adjuvant induces experimental autoimmune myocarditis by enhancing IL-6 production during initiation of the immune response. *Immun Inflamm Dis.* 2017 Jun;5(2):163-176.
- [3]. Ji YW, et al. Plasticity in ventral pallidal cholinergic neuron-derived circuits contributes to comorbid chronic pain-like and depression-like behaviour in male mice. *Nat Commun.* 2023 Apr 17;14(1):2182.

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

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