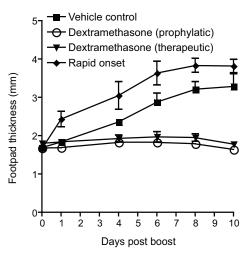


your partner in drug validation

Rheumatoid arthritis:

Rheumatoid arthritis is a chronic inflammatory disease affecting 1% of the population. The disease is characterized by the destruction of cartilage and bones and commonly leads to significant disability with a consequent reduction in quality of life. The inflammation is driven by the infiltration of numerous cell types including T cells, macrophages, B cells and granulocytes. Multiple cytokines are involved in the pathogenic process, with TNF□ and IL-1 taking center stage in the initiation and maintenance of the disease. Therapeutics targeting these cytokines and their associated signaling pathways reduce the clinical symptoms of RA. However, not all patients are responsive to this therapy, some side effects have been reported and the high costs and requirement for frequent administration of the drugs highlights the need for alternative treatment options. The collagen-induced arthritis (CIA) mouse model involves active immunization of animals with type II collagen in an emulsion of complete Freund's adjuvant that leads to an autoimmune response characteristic of rheumatoid arthritis. The collagen antibody induced arthritis (CAIA) mouse model is rapidly induced by the administration of a cocktail of antibodies that are specific for conserved auto-antigenic epitopes in collagen type II.



Experimental readouts:

- · Disease pathology score
- Footpad thickness
- Histological analysis
- · Measurement of disease biomarkers
- Quantitative PCR analysis of tissue cytokines and chemokines

Duration:

31-60 days dependent upon experimental readouts

Our scientific project managers can provide expert advice and guidance for all of your efficiacy studies.

Please contact us for customized Service Packages info@preclinbiosystems.com

Service Package I

- Administration of test compounds
- Initiation of disease model
- Measurement of severity score and footpad thickness

Service Package II

Service Package I is available alone, or in combination with Service Packages II and III

- Histological analysis
- Measurement of disease biomarkers

Service Package III

Quantitative PCR analysis of tissue cytokines and chemokines