Model Name
Androgen Antagonism

Item Number
507500

Introduction
The immune system is influenced by androgen in a diverse manner. The immune-regulatory properties of androgen can influence the outcome of autoimmune diseases. Androgen agonism and antagonism is commonly used to study the cellular parameters of immune system.

Procedure Summary
Test substance is administered by oral gavage for 5 consecutive days to a group of 6 Wistar male immature rats weighing 52 ± 2 g. Testosterone propionate is injected s.c. (3 mg/kg) immediately after each dose of test substance administered. The animals are sacrificed 24 hours later and wet weight of the seminal vesicle of each animal is recorded. ANOVA followed by Dunnett's test is applied for comparison between vehicle and treatment groups. P<0.05 is considered significant.

Suggested Testing
• n=6/group (study design dependent)
• Doses may be administered PO, IV, IP and SC
• Assessments available: Biomarkers and histology services may be performed upon request.

Turnaround Time(s)
• For Acute Assays: 4 weeks from sample receipt
• For Subacute Assays: 6 weeks to 3 months

Literature

Related Assay(s)  (Item # - Assay Name - Species)
507000 - Androgen Agonism - Rat

Modified Protocols
We will readily accommodate client-specified alterations.

Laboratory
These assays are performed at our AAALAC accredited laboratory in Taipei.

Animal Welfare
All aspects of this work is performed in general accordance with the Guide for the Care and Use of laboratory animals (National Academy Press, Washington, DC, 2011). The study protocol was approved by the Pharmacology Discovery Services IACUC and is performed with the oversight of veterinarians to assure the humane treatment of laboratory animals.

Reference Compound(s)
* Cyproterone

For current details about our Company address and contact information, please reference our website http://www.pharmacologydiscoveryservices.com/company-info/
Graph(s)

*P<0.05, treated vs. vehicle control; one-way ANOVA followed by Dunnett's test.

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