***Endorsed by:***

***Dean/Director/ Deputy Dean/***

***Deputy Director***



**Institutional ANIMAL CARE AND USE COMMITTEE**

**Universiti Putra Malaysia**

***SCIENTIFIC MERIT REVIEW***

***ON THE USE OF ANIMALS FOR RESEARCH***

*This completed Animal Utilisation Protocol (AUP) needs to be submitted to The Secretariat, Institutional Animal Care and Use Committee, c/o Unit of Ethics Research, Level 4, Office of the Deputy Vice Chancellor (Research & Innovation), Universiti Putra Malaysia, and approved by UPM IACUC prior to commencement of the animal study.*

*Direct all enquiries to* *iacuc@upm.edu.my* *or 03-97691431.*

|  |
| --- |
| **PROJECT TITLE:** |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| **BACKGROUND AND OBJECTIVES**  | **Yes** | **No** | **N/A** |
| 1. | Background and objectives are acceptable and clearly specified  |  |  |  |
| 2. | Objectives are achievable without using live animals (i.e. *in vitro*, cell culture, cadaver etc.) |  |  |  |
| 3. | Impact/benefits to animal and/or human are clearly specified  |  |  |  |
| Please comments on **originality and significance** of the study: |

|  |  |  |  |
| --- | --- | --- | --- |
| **ANIMAL USE** | **Yes** | **No** | **N/A** |
| 1. | Choice of species and/or strain for proposed project is justified  |  |  |  |
| 2. | Choice of condition/disease model for proposed project is justified  |  |  |  |
| 3. | Proposed number of groups and animals for the study are clearly justified  |  |  |  |
| Please comments on **animal use of the study**: |

|  |  |  |  |
| --- | --- | --- | --- |
| **SCIENTIFIC EXPERIMENTAL DESIGN** | **Yes** | **No** | **N/A** |
| 1. | Experimental animal design to achieve objectives is scientifically acceptable  |  |  |  |
| 2. | Research protocol/procedure is concise and clearly described  |  |  |  |
| 3. | Invasive procedure/surgery is scientifically justifiable |  |  |  |
| 4. | Usage of compound and drug with dosage, volume and route of administration is appropriately specified  |  |  |  |
| 5. | Provision on monitoring of clinical condition is clearly described |  |  |  |
| 6. | Humane endpoint of animals is scientifically acceptable  |  |  |  |
| Please comments on **scientific experimental design** of the study: |

|  |  |  |  |
| --- | --- | --- | --- |
| **POTENTIAL RISKS** | **Yes** | **No** | **N/A** |
| 1. | Potential risks (hazard, adverse effect, etc) to personnel, animals and environment are clearly addressed |  |  |  |
| 2. | Risk/benefit ratio for the study is adequately evaluated  |  |  |  |
| Please comments on possible **potential risks** of the study (if any):  |

|  |  |  |  |
| --- | --- | --- | --- |
| **CONCLUSION** | **Yes** | **No** | **N/A** |
| **1.** | Scientific merit for the project proposal is justifiable and acceptable  |  |  |  |
| **2.** | More information is required to evaluate this proposal |  |  |  |
| Please comments on **overall project** proposal: |

**Peer Reviewed by**

**Signature :**

**Name :**

**Stamp**

**Date :**