OBJECTIVES
OF
THE PRESENT STUDY
PART-1

1) To obtain pharmacokinetic data for the compound LM-1554 using various animal models.

2) To obtain pharmacodynamic data for the compound LM-1554 using rabbits.

3) To obtain better leads, perform evaluation of two series of the isomeric 2-substituted thieno (3,2-d) pyrimidine-4-(3H) - ones and two series of the isomeric 2-substituted thieno (2,3-d) pyrimidine-4-(3H) - ones.

4) To throw some light on the likely mechanism and site of action of the compound LM-1554.

PART-2

1) To elucidate the β₁-adrenoceptor antagonistic activity of the compound LM-2616 by the use of various in vivo and in vitro preparation.

2) To elucidate the β₂- adrenoceptor agonistic activity of the compound LM-2616 by the use of various in vivo and in vitro preparation.

3) To find out local anaesthetic activity of the compound LM-2616 using rabbits and guinea pigs.

4) To obtain acute toxicity data for the compound LM-2616 using mice.

5) To find out the SAR (Structure - Activity Relationship) for the various analogues of the compound LM-2616.