

**INHIBITORY EFFECT OF TURMERIC CURCUMINOIDS ON
IN VITRO OXIDATION OF LDL**

RONNARONG KAEWPRASERT

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE
IN MEDICAL TECHNOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University

All rights reserved

GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

APRIL 2004

**INHIBITORY EFFECT OF TURMERIC CURCUMINOIDS ON
IN VITRO OXIDATION OF LDL**

RONNARONG KAEWPRASERT

THIS THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER OF SCIENCE
IN MEDICAL TECHNOLOGY

EXAMINING COMMITTEE

N. Chanarat CHAIRPERSON

Associate Professor Nantaya Chanarat

S. Anuchapreeda MEMBER

Dr. Songyot Anuchapreeda

Porntip Lolekha MEMBER

Professor Porntip Lolekha

ลิขสิทธิ์ © by Chiang Mai University
All rights reserved

20 April 2004

© Copyright by Chiang Mai University

ACKNOWLEDGEMENT

I would like to express my deep gratitude and sincere appreciation to Associate Professor Nantaya Chanarat, my advisor, for her valuable instructions, advices, helpful guidance, criticism and kindness which has enable me to carry out the study successfully. I am greatly indebted to Lecturers Prasit Chanarat and Dr. Songyot Anuchapreeda, my co-advisors, for offering an opportunity to perform this research, as well as valuable suggestions for the study.

Sincere appreciation and gratitude are also express to Professor Porntip Lolekha, the thesis examining committee, for her magnificent comments and the correction of this thesis.

I would like to express my thanks to Associate Professor Dr. Watchara Kasinrerak and his staff, Department of Clinical Immunology, Faculty of Associated Medical Sciences for allowing me to use their equipment and provided me with U937 cells.

I would like to extend my gracious thanks to Assistant Professor Boonpayao Laohachinda, Associate Professor Rujapa Nimsung, Dr. Rachada Cressey, Dr. Roongsiri Chotpadiwetkul and Mr. Taweesak Auksorn tub, Department of Clinical Chemistry, Faculty of Associated Medical Sciences for their kind suggestions, practical training and allowing me to use the equipment.

I need to give a special note of thanks to Assistant Professor Dr. Pranee Leechanachai, Department of Clinical Microbiology, Faculty of Associated Medical Sciences for her kind advice and allowing me to use the equipment.

I am thankful to staffs at Department of Clinical Microscopy, Faculty of Associated Medical Sciences for their kindness and encouragement throughout this study.

I would also like to extend my appreciation to my friends for their helps and friendships.

Special thanks are expressed to all volunteers for their helps and participation as subjects in this study.

Finally, my infinite thanks are expressed to my family for their perfect understanding, constant support, and encouragement throughout my life.

Ronnarong Kaewprasert