



UPPSALA
UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 05 045	Date of issue 2005-09	
Author	Peter Sandblad	
Title (English)	Biosensor characterisation of enantioselective drug-protein interactions	
Title (Swedish)		
Abstract	<p>The interaction between purified enantiomers of chiral drugs and human serum proteins was used to validate the surface plasmon resonance-based biosensor technology for the analysis of enantioselective binding. Binding studies were performed on a Biacore S51 instrument and binding constants for the separate enantiomers were determined. The technique showed some variance in repeated experiments but the binding constant ratio between enantiomers was very consistent throughout the study.</p>	
Keywords	Biosensor, Biacore, SPR, drug-protein interaction, chiral, enantiomers, plasma proteins	
Supervisors	Robert Arnell Dept of surface biotechnology, Uppsala university, Sweden	
Scientific reviewer	Assoc. Prof. Torgny Fornstedt Dept of surface biotechnology, Uppsala university, Sweden	
Project name	Sponsors Biacore AB	
Language English	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages 27	
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217