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Author	Linnéa Holmén	
Title (English)	Pharmacological and expressional characterization of G-protein coupled receptors	
Title (Swedish)		
Abstract	<p>In two parallel studies, G-protein coupled receptors were studied to determine their pharmacological properties and localization. Real-time reverse transcription PCR was used to localize expression of 15 orphan G-protein coupled receptors within rat brain in preparation for an <i>in situ</i> hybridization study. Nine of the receptors showed differential expression in the brain. Four receptors were expressed throughout the brain. Two receptors were not expressed anywhere in the brain.</p> <p>The interaction of melanocyte stimulating hormones from dogfish with dogfish and human melanocortin receptors was studied using radio-ligand binding and cAMP assay. The ligands bound antagonistically to dogfish receptors and with high affinity to human receptors.</p>	
Keywords	Orphan G-protein coupled receptors, melanocortin, radio-ligand binding, real-time PCR	
Supervisors	Tatjana Haitina, Robert Fredriksson Department of Neuroscience, Uppsala University	
Scientific reviewer	Anna Kindlundh Department of Physiology and Pharmacology, The Karolinska Institute	
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Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217