

Contents

Chapter 1	Introduction	9
Chapter 2	Design, synthesis, radiolabeling, <i>in vitro</i> and <i>in vivo</i> evaluation of bridgehead iodinated analogues of <i>N</i> -{2-[4-(2-methoxyphenyl) piperazin-1-yl]ethyl}- <i>N</i> -(pyridin-2-yl)cyclohexanecarboxamide (WAY-100635) as potential SPECT ligands for the 5-HT _{1A} receptor <i>J Med Chem</i> 54(10) 3480-3491; 2011	25
Chapter 3	Design, synthesis and <i>in vitro</i> evaluation of bridgehead fluoromethyl analogues of <i>N</i> -{2-[4-(2-methoxyphenyl) piperazin-1-yl]ethyl}- <i>N</i> -(pyridin-2-yl)cyclohexanecarboxamide (WAY-100 635) for the 5-HT _{1A} receptor <i>Eur J Med Chem</i> 46(12) 5728-5735; 2011	67
Chapter 4	Synthesis, biodistribution and PET studies in rats of ¹⁸ F-labeled bridgehead fluoromethyl analogues of WAY-100635 <i>Nucl Med Bio</i> 2011	101
Chapter 5	Summary and general discussion	129
Chapter 6	Samenvatting	141
	Curriculum Vitae	147
	Acknowledgements	149