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(54) Title: GLUCAGON/GLP-1/GIP TRI-AGONISTS AND THEIR ASSOCIATED PRODRUGS

MBX 4244: YXQGTFTSDYSIBLDKZAQXAFIEYLLEGGPSSGAPPPS-amide
X=Aib, B= (aMe)Leu, Z= K(OEG-OEG-yE-COC18H36CO2H)

MBX 4244: LLY3437943

		% MBX 4244													
		hGcGR					hGLP-1R					hGIPR			
		12/21	12/22	12/19	12/14	12/8	12/21	12/22	12/19	12/14	12/8	12/19	12/19	12/19	12/14
4244	LLY3437943	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4301	Val23, Gln24, Trp25	73		113	66	92	155		153	117	162	123		197	115
4318	Tyr18, Val23, Gln24, Trp25		62	157	68	71		84	134	81	71		88	212	94
4320	His1, Tyr18, Val23, Gln24, Trp25		41	85				155	187				109	208	
4321	His1, His3, Tyr18, Val23, Gln24, Trp25		144	229				122	118				122	191	
4323	isoVal13, Val23, Gln24, Trp25		17					93					104		
4322	aMe-Phe13, Val23, Gln24, Trp25		31					105					83		

Fig. 9D

(57) Abstract: Peptides that exhibit glucagon, GIP and GLP-1 receptor agonist activity are provided as well as prodrug derivative thereof. Pharmaceutical compositions comprising such peptides and therapeutic methods of using such peptides are also provided.

[Continued on next page]

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
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