

**Supplementary Table 1: Differential HDX data of peptide fragments of PPAR $\gamma$  LBD bound to SR1988 or rosiglitazone compared to apo receptor.**

Sequence	Charge	Start	End	Structure	SR1988	Rosiglitazone
LRALAKHLYDSY	3	211	222	H1	0	1
RALAKHLYDSY	3	212	221	H1	0	-2
RALAKHLYDSY	3	212	222	H1	0	-1
IKSFPLTKAKARAIL	3	223	237	H1-H2	-13	-5
TGKTTDKSPFVIYDM	3	238	252	H2- $\beta$ sheet	4	-5
TGKTTDKSPFVIYDMNSLM	3	238	256	H2-H2'	4	-6
MGEDKIKFKHITPLQEQSKE	3	257	276	H2'-H3	2	-2
MGEDKIKFKHITPLQEQSKEVA	3	257	278	H2'-H3	4	-3
KIKFKHITPLQEQSKEVA	3	261	278	H2'-H3 loop	-1	-2
IRIFQGCQ	2	279	286	H3	-55	-81
AVQEITE	1	292	298	H3	-34	-13
VQEITE	1	293	298	H3	-33	-9
YAKSIPGF	2	299	306	H3	1	-2
YAKSIPGFVNL	2	299	309	H3	0	-2
DLNDQVTL	1	310	317	H4	0	0
LKYGVHE	2	318	324	H4-H5	-3	-10
LKYGVHEIIV	2	318	327	H4-H5	-2	-3
LKYGVHEIIVTM	3	318	329	H4-H5	0	0
LASLMNKGVL	2	330	340	H5- $\beta$ sheet	-10	-1
ASLMNKGVL	2	331	340	H5- $\beta$ sheet	-9	-3
MNKGVL	2	334	340	$\beta$ sheet	-9	-6
ISEGQGFMTRE	2	341	351	$\beta$ sheet-H6	-2	-9
ISEGQGFMTREFL	2	341	353	$\beta$ sheet-H6	3	-6
ISEGQGFMTREFLKLRLKPFQDF	3	341	363	$\beta$ sheet-H6-H7	-7	-4
FLKSLRKPFGD	2	352	362	H6-H7	0	-3
FLKSLRKPFGDFMEPKFEF	3	352	370	H6-H7	-12	-6
LRKPFQDF	2	356	363	H6-H7 loop	-9	-1
LRKPFQDFMEPKFEF	3	356	370	H7	-9	-5
AVKFNAL	2	371	377	H7	-5	-4
AVKFNALDDSDL	2	371	384	H7-H8	-1	-3
NALEDDSDL	1	375	384	H7-H8	-2	-2
LEDDSDL	1	377	384	H7-H8	-1	0
VIIISGDRPGLL	2	390	401	H8	-1	-5
IISGDRPGLL	2	391	401	H8	-2	-6
IISGDRPGLLNVKPIE	3	391	407	H8-H9	1	-4
IISGDRPGLLNVKPIED	3	391	408	H8-H9	0	-2
NVKPIED	2	402	408	H9	0	-5
NVKPIEDIQDNL	2	402	413	H9	-1	0
NVKPIEDIQDNLQ	2	402	416	H9	0	0
IQDNL	1	409	414	H9	-1	0
LELQKLNHPSSQL	3	417	431	H9	0	-1
ELQKLNHPSSQL	2	418	431	H9	-1	-1
QLKLNHPSSQL	2	420	431	H9	-1	-1
LKLNHPSSQL	2	421	431	H9	-1	-2
KNHPSSQL	2	422	431	H9	-1	-2
FAKLLQKMTDL	2	432	442	H10-H11	0	-3
FAKLLQKMTDLRQ	3	432	444	H10-H11	-1	-5
LQKMTDL	2	436	442	H10-H11	1	-5
LQKMTDLRQ	3	436	444	H10-H11	1	-9
RQIVTE	2	443	448	H10-H11	-17	-22
RQIVTEHVQL	3	443	452	H10-H11	-18	-17
LQVIKKTETDM	2	453	463	H11	-10	-17
LQVIKKTETDMSLHPLL	3	453	469	H11-H12	-6	-18
LQVIKKTETDMSLHPLLQE	3	453	471	H11-H12	-4	-19
IKKTETDMSLHPLL	3	456	469	H11-H12	-4	-12
SLHPLLQEIKDLY	2	464	477	H12	-5	-36
HPLLQEIKDLY	2	466	477	H12	-5	-37
QEIKDLY	1	470	477	H12	-3	-36

