

Supporting information for:

**High Efficiency Recognition and Identification of Disulfide Bonded
Peptides in Rat Neuropeptidome Using Targeted Electron Transfer
Dissociation MS/MS Spectrometry**

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Table S1 : Disulfide bonded peptides identified

Table S1 Disulfide Bonded Peptides Identified

No.	Sequence	Peptide	-10lgP	Mass	ppm	m/z	Accession
1	V(+42.01)ENEKSPCARTGSGRPCTING(-.98)	new	15.52	2311.0808	0.1	578.7775	B3XZL8 B3XZL8_RAT
2	VTNIFICSLALSDLLIVFFCIPVT	new	23.74	2638.4165	-6.8	660.6069	D3Z8C2 D3Z8C2_RAT
3	VLGLRGSKTDLEEWQGLREWQSFLISCSRHLLQVSRSLR	new	15.19	4820.4878	-1.7	804.4205	D3ZLA8 D3ZLA8_RAT
4	NFRRFLCPKCQRR	new	16.06	1791.926	-6	598.3124	D4ADL0 D4ADL0_RAT
5	FLCMPLDLVRLWQYRPWNFGDLLCKLFQFV(-.98)	new	17.18	3756.9297	8.3	752.3995	008725 GHSR_RAT
6	AAVISAPVDNRDHNEEMVTRCIIEVLSNALSKSSAPTITPECRQV(-.98)	new	18.16	4860.4331	-2.5	695.3531	035314 SCG1_RAT
7	RCIIEVLSNALSKSSAPTITPECRQV	new	17.72	2812.4585	-1.9	563.4979	035314 SCG1_RAT
8	T(+42.01)RCIIEVLSNALSKSSAPTITPEC(-.98)	new	17.07	2571.3047	-1.9	643.8322	035314 SCG1_RAT
9	Q(-17.03)PLPDCCRQKTCSCRLYELLHGAGNHAAGILTL(-.98)	Orexin-A	18.82	3559.7081	-1.2	890.93	055232 OREX_RAT
10	C(+42.01)LLWVDKYKPTSLKNITDSRVTRAVPTNCYAGSETG	new	22.24	4025.999	0	1007.507	088461 088461_RAT
11	ALGHPCGPQGTCGQTGLLQLLDLSRGQETLVKQSPQVEPWDKEPLE	new	90.76	5007.4868	6.2	1002.5109	P01150 TRH_RAT
12	GVLMPKQHPGKRALGHPCGPQGTCGQTGLLQLLD	new	21.15	3846.9565	2.5	770.4005	P01150 TRH_RAT
13	CAKCSYRLVRPGDINFLACTLECEGQLPSFKIW(-.98)	new	21.75	3754.8267	5.3	939.7189	P04094 PENK_RAT
14	S(+42.01)ILSLIQTPKCLHTYFSMTTMTGNTATGLHYSVPSCHY	new	21.67	4141.9419	-6	829.3907	P10037-2 PIT1_RAT
15	DFDMLRCMLGRVYRPCWQV	Melanin-concentrating hormone	40.42	2385.1013	6.4	597.2864	P14200 MCH_RAT
16	FDMLRCMLGRVYRPCWQV	Melanin-concentrating hormone fragment	24.88	2270.0745	1.9	757.7002	P14200 MCH_RAT
17	IGDEENSAKFPIGRRDFDMLRCMLGRVYRPCWQ(-.98)	new	28.28	3954.9026	1.1	660.1584	P14200 MCH_RAT
18	L(+42.01)FCVWCALNSVKAQRQFVNEW(-.98)	new	29.39	2579.2939	-2.9	645.8289	P28840 NEC1_RAT
19	FLLQLIDHEVHEGNEVWCRCVTTIFNYFVVT	new	15.08	3721.8071	8.1	745.3748	P47866 CRFR2_RAT
20	IPIYEKKYGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLLKCL	CART(55-102)	36.65	5255.5488	2.7	1052.1199	P49192 CART_RAT
21	YGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLLKCL	CART(62-102)	42.33	4384.0322	3.2	1097.0188	P49192 CART_RAT
22	KYCINEDTPVLLDDPILCTMAKKYKR	new	18.25	3067.5554	4.9	767.8999	P51652 AKC1H_RAT
23	AGCKNFFWKTFTSC	Somatostatin-14	71.93	1636.7178	-0.7	546.5795	P60042 SMS_RAT

24	GCKNFFWKTFTSC	Somatostatin-14 fragment	60.46	1565.6807	2.3	522.902	P60042 SMS_RAT
25	SANSNPAMAPRERKAGCKNFFWKTFTSC	Somatostatin-28	95.1	3146.4648	3.8	1049.8329	P60042 SMS_RAT
26	EGKCLVVCDSNPTSDPTGTALGISVRSGSAKVAFSAIRS	new	18.59	3877.9312	5.9	555.0007	P63182 CBLN1_RAT
27	ETEPIVLEGKCLVVCDSNPTSD (-.98)	new	19.38	2344.0938	4.9	782.3757	P63182 CBLN1_RAT
28	G(+42.01)PARGQNETEPIVLEGKCLVVCDSNPT (-.98)	new	17.61	2864.3806	-3.6	717.0999	P63182 CBLN1_RAT
29	IVLEGKCLVVCDSNPTSDPTGTALGISVRSGSAKVAFSAI	new	17.79	3960.0347	-7.6	661.0081	P63182 CBLN1_RAT
30	LLLLLLPACCPVKAQN (-.98)	new	15.47	1704.9794	-8	427.2487	P98087 CBLN2_RAT
31	PIVLEGKCLVVCDSPPSGDGAVTSSLGISVRSGS	new	16.36	3273.623	2.4	819.415	P98087 CBLN2_RAT
32	E(-18.01)ERYLPQCSYFKCVQKDIQPYMRMVA (-.98)	new	17.18	3359.6199	-6.6	840.9067	Q04827 CCND2_RAT
33	R(+42.01)VLCLEQGHMFVCGDVTMATSVLQTVQRILA (-.98)	new	17.41	3456.7512	6.4	692.3619	Q62600 NOS3_RAT
34	RKAYKQVFKRCVNCESPHGDAKEKNRI	new	17.84	3201.6411	-9	641.3297	Q62805 GALR1_RAT
35	A(+42.01)HLEIITERGLRDSCGGFLISRQFVLTAHCNGREITVTL	new	23.94	4436.2856	-2.8	740.3862	Q6IE10 Q6IE10_RAT
36	LRDSCGGFLISRQFVLTAHCNGRE	new	27.23	2747.3394	6.7	687.8467	Q6IE10 Q6IE10_RAT
37	QSCQRQLNSRGTFQCKADVFLS	new	15.77	2513.1914	1.5	629.3061	Q8K4P2 NPB_RAT
38	W(+42.01)RRNANGDPVCNACGLYYKLHNVNRPLTMKKEGIQT	new	16.23	4199.0737	-5	700.8494	Q924Y4 GATA2_RAT
39	WCICSIKSNRHKDGFHRLR	new	16.94	2353.1807	10	589.3083	Q9JHW1-2 CBPD_RAT
40	W(+42.01)RTIQARYCFLLVPCVLTALAEVPID	new	15.33	3029.5881	-4.9	758.4006	Q9JI85 NUCB2_RAT
41	HTHRIRTNPAIVKTENSWSNKAKSICQQKQRRPCSE	new	18.04	4454.2681	3.7	743.3881	Q9QYK2 PRGC1_RAT
42	L(+42.01)LIHSGVRSFKCEICGKMFTRE	new	18.89	2749.3989	8.8	917.4816	Q9WTY8 ZBT10_RAT
43	DLTTESNLLACIRACKLDLSLETPVFPNGDE	new	26.04	3431.6599	3.3	687.3416	P01193 COLI_MOUSE35.16

PTMS: Delta mass -17.03, Pyro-glutamate formation from glutamatic acid or glutamine ; Delta mass -0.98, amidation; Delta mass +42.01, acetylation.