

LifeTein Peptide Modification List (Part 1)

Fluorescence/Dye Labeling (FDL)		Modification (MOD)		Cyclic peptide (CLP)	
FDL1	Biotin (N-Terminal)	MOD1	Acetylation (N-Terminal)	CLP1	Mono Disulfide Bridge
FDL2	Biotin-LC (N-Terminal), Add an Ahx linker	MOD2	Fmoc(N-Terminal)	CLP2	Double Disulfide Bridge
FDL3	3-Indolylacetic acid (N-Terminal)	MOD3	Amidation (C-Terminal)	CLP3	Triple Disulfide Bridge
FDL4	FITC (N-Terminal)	MOD4	Z (CBZ) (N-Terminal)	CLP4	Same Seq. Inter-Disulfide Bridge
FDL5	FITC-LC (N-Terminal), Add an Ahx linker	MOD5	Alloc (N-Terminal)	CLP5	Different Inter-Disulfide Bridge
FDL6	5-FAM (N-Terminal)	MOD6	Bz (N-Terminal)	CLP6	Amide cyclic (end)
FDL7	5-FAM-LC (N-Terminal), Add an Ahx linker	MOD7	Br-Ac- {N terminus}	CLP7	Amide cyclic (Side chain)
FDL8	Dansyl (N-Terminal)	MOD8	Formylation (N-Terminal)	N-Methyl amino acid (MAA)	
FDL9	Dansyl-LC (N-Terminal), Add an Ahx linker	MOD9	Fatty acid (N-Terminal)	MAA1	{N-Me-Ala}
FDL10	MCA (N-Terminal)	MOD10	Myristic acid (N-Terminal)	MAA2	{N-Me-Phe}
FDL11	TMR (N-Terminal)	MOD11	Palmytolyl (N-Terminal)	MAA3	{N-Me-Leu}
FDL12	Lys(Biotin) (middle)	MOD12	Suc (N-Terminal)	MAA4	{N-Me-Ile}
FDL13	Lys(Biotin) (C terminus)	MOD13	pNA (C-Terminal)	MAA5	{N-Me-Val}
FDL14	Lys(FITC) (middle)	MOD14	AMC (C-Terminal)	MAA6	{N-Me-Met}
FDL15	Lys(FITC) (C terminus)	MOD15	CMK (C-Terminal)	MAA7	{N-Me-Nle}
FDL16	Lys(5-FAM) (middle)	MOD16	FMK (C-Terminal)	MAA8	{N-Me-Nva}
FDL17	Lys(5-FAM) (C terminus)	MOD17	Cysteamide (C-Terminal)	MAA9	{N-Me-Gly}, Sar
FDL18	Lys(Dansyl) (middle)	MOD18	{HPP} (N-Terminal) 3-(p-Hydroxyphenyl) propionic Acid	MAA10	{N-Me-Ser}
FDL19	Lys(Dansyl) (C terminus)	MOD19	{Mpa} (N-Terminal)	MAA11	{N-Me-Tyr}
FDL20	Lys(TMR) (middle)	MOD20	{pGlu} (N-Terminal)	MAA12	{N-Me-Thr}
FDL21	Lys(TMR) (C terminus)	MOD21	DL-Lipoic acid (N-Terminal)	MAA13	{N-Me-Asp}
FDL22	{Lys(Dnp)} (middle)	MOD22	{Maleoyl-b-Ala} Maleimide (N-Terminal)	MAA14	{N-Me-Glu}
FDL23	EDBiotin (C terminus)				
FDL24	EDDnp (C terminus)				
FDL25	{Lys(Maleimide)}, (middle)				
Phosphorylation (PPL)		Spacer Linker (SLK)		Quenched fluorescent peptide (QFP)	
PPL1	{pSer}	SLK1	{Mini-PEG}	QFP1	Abz/ Tyr (3-NO2)
PPL2	{pTyr}	SLK2	{Ava}, C5	QFP2	Abz
PPL3	{pThr}	SLK3	{Ahx}, C6	QFP3	Tyr (3-NO2)
PPL4	Di-sites in sequence	SLK4	{GABA}, C4	QFP4	Glu(EDANS)-NH2
PPL5	Tri-sites in sequence	SLK5	{Beta-Ala}, C3	QFP5	DABCYL
		SLK6	{Gly}, C2	QFP6	DABCYL/Glu(EDANS)-NH2

LifeTein Peptide Modification List (Part 2)

Special amino acid (SAA)					
SAA1	{D-2-Me-Trp}	SAA27	{D-Lys}	SAA53	{L-3-Pal}
SAA2	{Ser(octanoic acid)}	SAA28	{Orn}	SAA54	{D-4-Pal}
SAA3	{Lys(Me)}	SAA29	{Abu}	SAA55	{L-4-Pal}
SAA4	{Lys(Me2)}	SAA30	{Aib}	SAA56	{D-4-Cl-Phe}
SAA5	{Lys(Me3)}	SAA31	{Nva}	SAA57	{L-4-Cl-Phe}
SAA6	{Lys(Dde)}	SAA32	{Nle}	SAA58	{D-4-F-Phe}
SAA7	{Lys(Alloc)}	SAA33	{Cit}	SAA59	{L-4-F-Phe}
SAA8	{D-Ile}	SAA34	{Lys(Ac)}	SAA60	{D-4-NO2-Phe}
SAA9	{D-Orn}	SAA35	{Cys(Me)}, SMC	SAA61	{L-4-NO2-Phe}
SAA10	{D-Gln}	SAA36	{Cys(Cam)}	SAA62	{D-4-I-Phe}
SAA11	{D-Cit}	SAA37	{Cys(Acm)}	SAA63	{L-4-I-Phe}
SAA12	{Dab}	SAA38	{Cys(tBu)}	SAA64	{Beta-Asp}
SAA13	{Dap}	SAA39	{Hse}	SAA65	{Gama-Glu}
SAA14	{D-Beta-Asp}	SAA40	{Hcy}	SAA66	{D-Ala}
SAA15	{D-Gama-Glu}	SAA41	{D-Pen}	SAA67	{D-Leu}
SAA16	{Cpg}, cyclopentylglycine	SAA42	{Cha}	SAA68	{D-Met}
SAA17	{D-Arg}	SAA43	{D-Cha}	SAA69	{D-Pro}
SAA18	{D-Cys}	SAA44	{Chg}	SAA70	{D-Phe}
SAA19	{D-Asp}	SAA45	{D-Chg}	SAA71	{D-Val}
SAA20	{D-Asn}	SAA46	{D-1-Nal}	SAA72	{Hyp}
SAA21	{D-Glu}	SAA47	{L-1-Nal}	SAA73	{Phg}
SAA22	{D-Ser}	SAA48	{D-2-Nal}	SAA74	{Pra}
SAA23	{D-His}	SAA49	{L-2-Nal}	SAA75	{D-Pra}
SAA24	{D-Tyr}	SAA50	{D-2-Pal}	SAA76	{Gly(allyl)}
SAA25	{D-Thr}	SAA51	{L-2-Pal}	SAA77	{D-Gly(allyl)}
SAA26	{D-Trp}	SAA52	{D-3-Pal}		
MAPS and Carrier Complex (MCC)		C Terminus Modification (CTA) ending amino acids: Ala, Gly, Met, Leu, Ile, Phe, Pro, Val		C Terminus Modification (CTB) ending amino acids: Lys, Gln, Asn, Cys, His, Arg, Ser, Thr, Tyr, Trp, Asp, Glu	
MCC1	Asymmetric 2 Branches (Pure)	CTA1	-OMe (C-terminal)	CTB1	-OMe (C-terminal)
MCC2	Asymmetric 4 Branches (Crude)	CTA2	-OEt (C-terminal)	CTB2	-OEt (C-terminal)
MCC3	Asymmetric 8 Branches (Crude)	CTA3	-OBzl (C-terminal)	CTB3	-OBzl (C-terminal)
MCC4	Glu 2 Branches (Pure)	CTA4	-OtBu (C-terminal)	CTB4	-OtBu (C-terminal)
MCC5	n-mer Branch peptide on Lys side chain (Pure)	CTA5	-TBzl (C-terminal)	CTB5	-TBzl (C-terminal)
MCC6	KLH-Peptide	CTA6	-NHMe (C-terminal)	CTB6	-NHMe (C-terminal)
MCC7	BSA-Peptide	CTA7	-NHet (C-terminal)	CTB7	-NHet (C-terminal)
		CTA8	-NHisopen (C-terminal)	CTB8	-NHisopen (C-terminal)

LifeTein Peptide Modification List (Part 3)

Special Treatment					
ST1	GMP Clean Room Process	ST5	N elemental Analysis	ST8	Microbial analysis
ST2	Amino Acid Analysis (AAA)	ST6	Solubility test	ST9	Water content (Karl Fischer)
ST3	Acetate Content (HIPC)	ST7	Endotoxin analysis	ST10	Aliquoting
ST4	MALDI-TOF MS				