



# BTL Biotechno Labs Pvt. Ltd.:

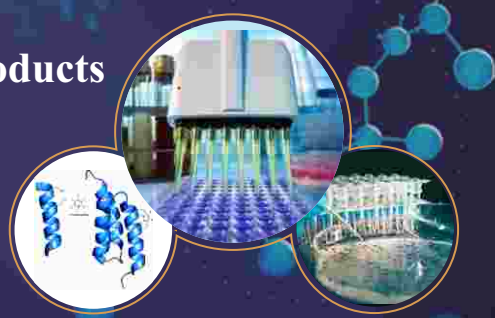
## Authorized Channel Partner of

# AnaSpec

Leading provider of integrated proteomics solutions

### Broad Array of Research Products

- ◆ Custom Peptides
- ◆ GMP Peptides
- ◆ Enzyme Assay Kits
- ◆ Recombinant Proteins & Enzymes
- ◆ Amino Acids & Synthesis Reagents



**AnaSpec** is a globally recognized biotechnology company that manufactures and sells quality catalog and custom peptides, GLP and GMP proteomic-related products, and provides services to the biopharmaceutical industry, diagnostic companies, agro-food firms, academia, and governmental institutions. They also manufacture fluorogenic and FRET assay kits, fluorescent dyes, amino acids, and more for research, drug discovery, and diagnostic use. Their aim is to empower the scientific community in their endeavors to elucidate diseases and enhance health and well-being through their quality proteomic products and their use. **BTL Biotechno Labs Pvt. Ltd.** is the distributor of **Anaspec** in **India**. We are committed to being the most reliable supplier for life science research products in the entire Indian market and serving the scientific community by providing innovative, reliable, and high-quality research products at an affordable price.

We, [BTL Biotechno Labs Pvt. Ltd.](#), a channel partner of **AnaSpec**, offer their highly specific, optimized, and high-quality life science research products, like custom peptides, GMP peptides, enzyme assay kits, recombinant proteins, enzymes, amino acids, and synthetic reagents, to the scientific community in India at the best prices with the fastest delivery.



# Custom Peptides

## Internal Modifications and related designators

Note: some modifications are sequence dependent and will be assessed during quotation process.  
Other modifications available upon request.

## UAAD BY MODIFICATION

UAAD by modification	AA Modified or Placement	Sequence Notation	Example x = amino acid
Acetylation	N-terminus, K	Ac- -K(Ac)-	Ac-xx-K(Ac)-xx-
Alkyne	E, D K, Dap	-E(Alkyne)- -D(Alkyne)- -K(Alkyne)- -Dap(Alkyne)-	-xx-E(Alkyne)-xx-
Azide	F K A	-F(N3)- -K(N3)- -Aha-	-xx-F(N3)-xx-
Bromoacetylation	K N-term	-K(BrAc)-	-xx-K(BrAc)-xx-
DOTA, NOTA	N-term, K	DOTA- -K(DOTA)-	Dota-xx-K(Dota)-xx-
Formylation	K	-K(Formyl)-	-xx-K(Formylation)-xx-
Farnesylation	C	-C(Farnesyl)-	-xx-C(Farnesyl)-xx-
Geranylgeranylation	C	-C(Geranylgeranyl)-	-xx-C(Geranylgeranyl)-xx-
Glycosylation-galactose	T,S	-S(GalNac)- -T(GalNac)-	-xx-S(GalNac)-xx-
Glycosylation-glucose	S,T, N	-S(GlcNac)- -T(GlcNac)- -N(GlcNac)-	-xx-S(GlcNac)-xx-
Methylation (mono)	K,R	-K(Me1)- -R(Me1)-	-xx-K(Me1)-xx-
Methylation(di)	K	-K(Me2)-	-xx-K(Me2)-xx-
Methylation (Assymetrical)	R	-R(Me2)asy-	-xx-R(Me2)asy-xx-
Methylation (Symmetrical)	R	-R(Me2)sym-	-xx-R(Me2)sym-xx-
Methylation (Tri)	K	-K(Me3)-	-xx-K(Me3)-xx-
N-Methylation	A,G,L,F,Nva	-(N-Me-Ala)- -(N-Me-Gly)- -(N-Me-Leu)- -(N-Me-Phe)- -(N-Me-Nva)-	-xx-(N-Me-Ala)-xx-
Phosphorylation	S, T, Y	-pS-, -pT-, -pY-	-xx-pS-sxx-
Pegylation	N-terminus or K	K(PEG2) K(PEG3) K(PEG4) K(PEG5) K(PEG6) K(PEG8) K(PEG12) K(PEG2000)	PEG2-xx-K(PEG2)-xx-
Sulfated	Y	-Y(S03H)-	-xx-Y(S03H)-xx-

UAAD ON BACKBONE

UAAD on backbone	Sequence Notation	Example = amino acid
3-Ala(2-thienyl)-OH	Thi	-xx-Thi-xx-
L - 2 - aminocaproic acid	-Nle-	-xx-Nle-xx-
$\alpha$ - aminoisobutyric acid	-Aib-	-xx-Aib-xx-
6 - aminohexanoic acid	-LC - or -Ahx-	Biotin-LC-xxxx-
L - $\alpha$ - t - butylglycine	-Tle-	-xx-Tle-xx-
$\beta$ -cyclohexyl-L-alanine	-Cha-	-xx-Cha-xx-
$\beta$ -cyclopropyl-L-alanine	-Cpa-	-xx-Cpa-xx-
Citrulline	-Cit-	-xx-Cit-xx-
Cysteic Acid	-Cya-	-xx-Cya-xx-
Cysteine (reduced)	C* (*Cys reduced)	xx-C*xx (*Cys reduced)
Dehydroalanine Dehydroleucine Dehydroproline	-DeAla- -DeLeu- -DePro-	-xx-DeAla-xx- -xx-DeLeu-xx- -xx-DePro-xx-
L - $\alpha,\beta$ - diaminopropionic acid	-Dap-	-xx-Dap-xx-
D - $\alpha,\beta$ - diaminopropionic acid	-(D-Dap)-	-xx-(D-Dap)-xx-
(N - $\gamma$ - 1 - (4,4 - dimethyl - 2,6 - dioxycyclohex - 1 - ylidene)ethyl) - L - $\alpha,\beta$ - diaminopropionic acid	-(Dab(Dde))-	-xx-(Dab(Dde))-xx-
Ornithine	-Orn-	-xx-Orn-xx-
Diphenylethylenediamine	-(D-Pen)-	-xx-(D-Pen)-xx-
L-Allothreonine	Allo-Thr	-xx-(Allo-Thr)-xx-
D-Allothreonine	D-Allo-Thr	-xx-(D-Allo-Thr)-xx-
Propargylglycine	Pra	-xx-Pra-xx-

## HEAVY ISOTOPE AA CLEARPOINT™

Heavy Isotope AA ClearPoint™	AA Modified	Mass Increase (daltons)	Sequence Notation	Example x = amino acid
Ala (1 - 13C)	A	1	-A(1-13C)-	-xx-A(1-13C)-xx-
Ala (15N)	A	1	-Ala (15N)-	-xx-Ala(15N)-xx-
Ala (3 - 13C)	A	3	-Ala(3-13C)-	-xx-Ala(3-13C)-xx-
Ala (U-13C3, U-15N)	A	4	-Ala(U-13C3, U-15N)-	-xx-Ala(U-13C3, U-15N)-xx-
Arg (U-13C6, U-15N4)	R	7	-Arg(U-13C6, U-15N4)-	xx-Arg(U-13C6, U-15N4)-xx-
Asn (U-13C4, U-15N2)	N	6	-Asn(U-13C4, U-15N2)-	-xx-Asn(U-13C4, U-15N2)-xx-
Asp (U-13C4, 15N)	D	5	-Asp(U-13C4, 15N)-	-xx-Asp(U-13C4, 15N)-xx-
Cys (U-13C3, 15N)	C	4	-Cys(U-13C3, 15N)-	-xx-Cys(U-13C3, 15N)-xx-
Gln (U-13C5, U-15N2)	Q	7	-Gln(U-13C5, U-15N2)-	-xx-Gln(U-13C5, U-15N2)-xx-
Glu (U-13C5, 15N)	E	6	-Glu(U-13C5, 15N)-	-xx-Glu(U-13C5, 15N)-xx-
Gly (U-13C2, 15N)	G	3	-Gly(U-13C2, 15N)-	-xx-Gly(U-13C2, 15N)-xx-
Ile (U-13C6)	I	6	-Ile(U-13C6)-	-xx-Ile(U-13C6)-xx-
Leu (U-13C6, 15N)	L	7	-Leu(U-13C6, 15N)-	-xx-Leu(U-13C6, 15N)-xx-
Lys (U-13C6, U-15N2)	K	8	-Lys(U-13C6, U-15N2)-	-xx-Lys(U-13C6, U-15N2)-xx-
Met (U-13C5, 15N)	M	6	-Met(U-13C5, 15N)-	-xx-Met(U-13C5, 15N)-xx-
Phe (U-13C9, 15N)	F	10	-Phe(U-13C9, 15N)-	-xx-Phe(U-13C9, 15N)-xx-
Pro (U-13C5, 15N)	P	6	-Pro(U-13C5, 15N)-	-xx-Pro (U-13C5, 15N)-xx-
Ser (U-13C3, 15N)	S	4	-Ser(U-13C3, 15N)-	-xx-Ser(U-13C3, 15N)-xx-
Thr (U-13C4, 15N)	T	5	-Thr (U-13C4, 15N)-	-xx-Thr(U-13C4, 15N)-xx-
Val (U-13C5, 15N)	V	6	-Val (U-13C5, 15N)-	-xx-Val(U-13C5, 15N)-xx-

## DYES &amp; QUENCHERS

Labeling	Designator	Labeled amino acid
<b>Biotin</b>		
Biotin-amide*	(-Biot)	on K
LC-Biotin-amide*	(-LC-Biot)	on K
<b>Fluorescent dyes</b>		
CyLyte Fluor3*	(-CF3)	on K
CyLyte Fluor5*	(-CF5)	on K
CyLyte Fluor7*	(-CF7)	on K
HiLyte™ Fluor488*	(-HF488)	on K
HiLyte™ Fluor555*	(-HF555)	on K
HiLyte™ Fluor647*	(-HF647)	on K
HiLyte™ Fluor750*	(-HF750)	on K
FAM*	(-FAM)	on K or W
FITC*	(-FITC)	on K
Mca*	(-Mca)	on K
ROX*	(-ROX)	on K
Sulforhodamin101*	(-SR101)	on K
TAMRA*	(-TAMRA)	on K
<b>Quenchers</b>		
QXL@520*	(-Q520)	on K
QXL@570*	(-Q570)	on K
QXL@610*	(-Q610)	on K
QXL@670*	(-Q670)	on K
DABCYL*	(-DABCYL)	on K
Dnp*	(-Dnp)	on K



ISO 9001:2015

**BTL Biotechno Labs Pvt Ltd**  
*Research is creating new knowledge*

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