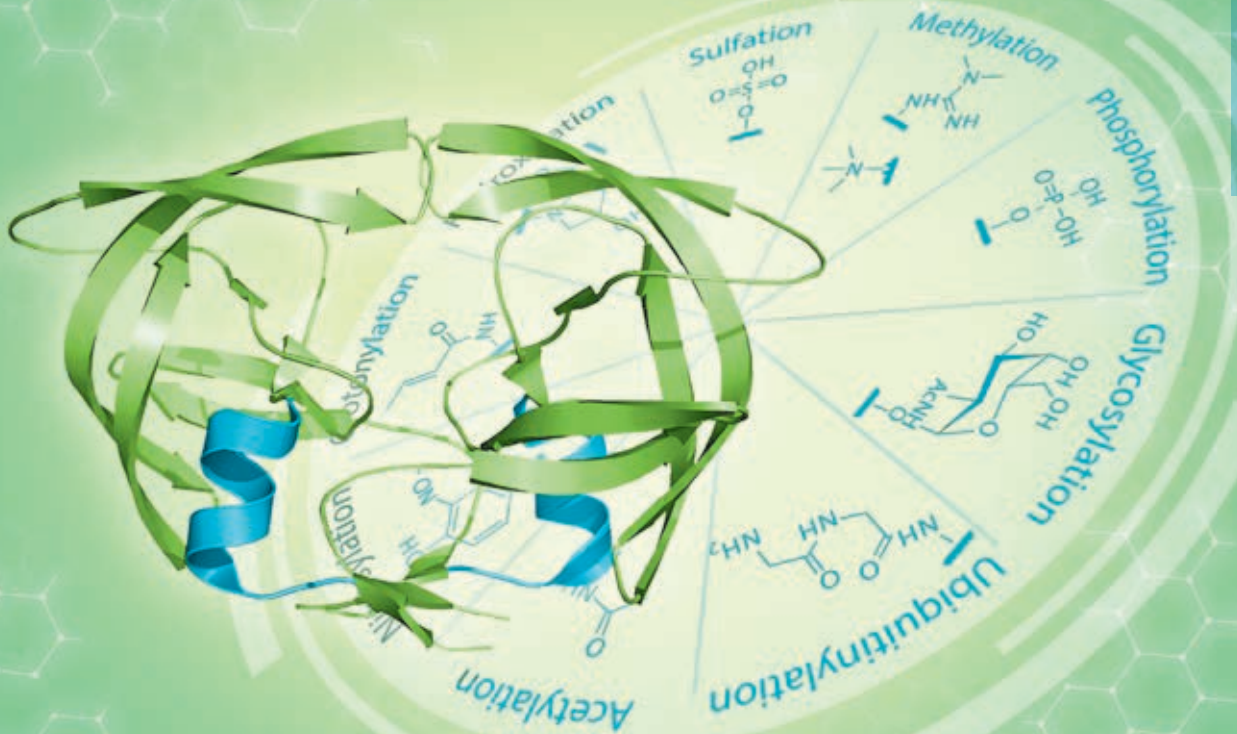




## SpikeTides™ PTM Reference Kits



# PTM Proteomics

## SpikeTides™ PTM References

- ❖ Large range of PTM reference peptides
- ❖ Light or stable isotope-labeled
- ❖ Absolutely quantified or non-quantified
- ❖ Selected for high recovery in LC-MS
- ❖ Available as individual peptides and convenient kits

Contact us for further information: [peptide@jpt.com](mailto:peptide@jpt.com)

JPT Peptide Technologies  
www.jpt.com  
peptide@jpt.com

Contact  
T +49-30-6392-7878  
F +49-30-6392-7888

USA/Canada  
T 1-888-578-2660  
F 1-888-578-2666



Innovative Peptide Solutions

# Synthetic Peptide Reference Standards for PTM Proteomics

## SpikeTides™ PTM Reference Peptides & Kits

### Available PTMs

- Phosphoserine
- Phosphothreonine
- Phosphotyrosine
- Arg(Me, Me2a, Me2s)
- Lys(Ac)
- Lys(Me, Me2, Me3)
- Lys(Mal)
- Lys(Suc)
- Lys(Glu)
- Lys(Biotin)
- Lys(Cro)
- Lys(Hib)
- Lys(For)
- Lys(Prop)
- Lys(But)
- Lys(GG)
- Sulfotyrosine
- Glyco-Asn(betaDGlcNAc)
- Glyco-Thr(alphaDGalNAc)
- Glyco-Ser(alphaDGalNAc)

### Applications

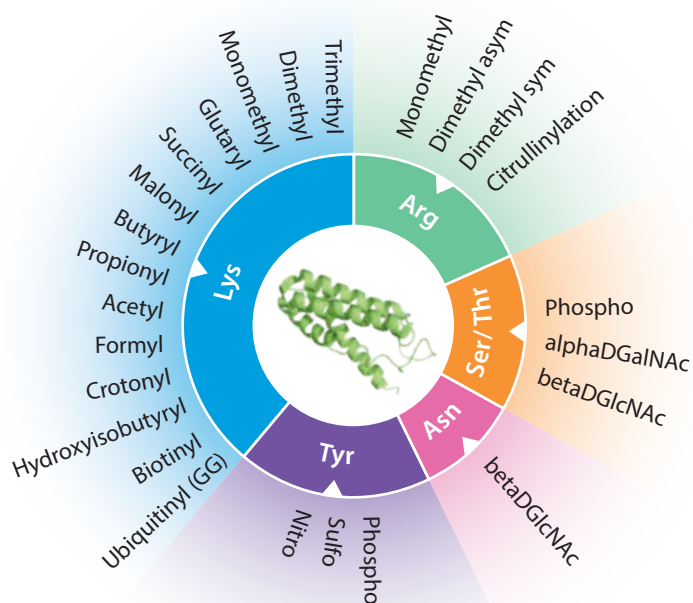
Address the challenges of PTM proteomics such as low endogenous abundance, low ionization intensity and changed fragmentation. Use our synthetic PTM reference peptides as reference materials in mass spectrometry-based proteomics to optimize workflows and settings.

### Benefits

- Large range of PTM reference peptides
- Selected for high recovery in LC-MS
- Stable-isotope labeled or light
- Absolutely quantified or non-quantified

### Selected References

- *"ProteomeTools: Systematic Characterization of 21 Post-Translational Protein Modifications by LC-MS/MS Using Synthetic Peptides"*  
Zolg et al., Molecular and Cellular Proteomics (2018)
- *"Building ProteomeTools Based on a Complete Synthetic Human Proteome"*  
Zolg et al., Nature Methods (2017)
- *"LC-MS/MS-Based Monitoring of in vivo Protein Biotransformation: Quantitative Determination of Trastuzumab and its Deamidation Products in Human Plasma"*  
Bults et al., Anal Chem. (2016)



A large variety of post-translational modifications is included in our PTM Reference Kits.

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JPT Peptide Technologies  
www.jpt.com  
peptide@jpt.com

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F +49-30-6392-7888

USA/Canada  
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F 1-888-578-2666

**jpt**

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