

**CIL**Cambridge Isotope Laboratories, Inc.
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Cambridge Isotope Laboratories, Inc. introduces the

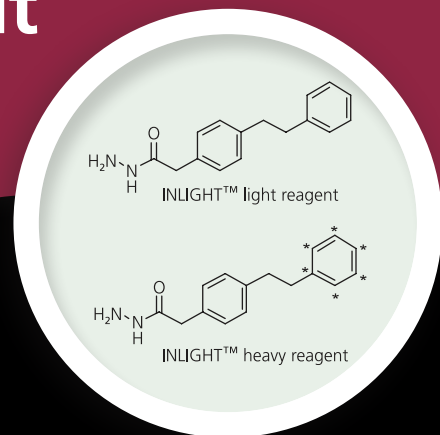
INLIGHT™ Glycan Tagging Kit

Catalog No. **GTK-1000**

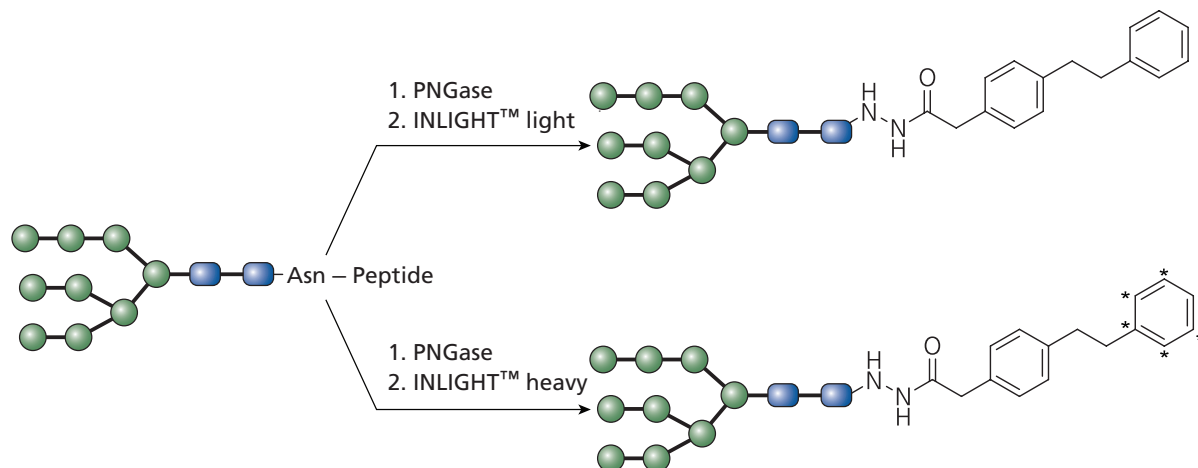
The INLIGHT™ glycan tagging kit, developed by the David Muddiman group in collaboration with synthetic chemist Daniel Comins at North Carolina State University,^{1,2} represents the latest in glycan-labeling technology for the relative quantification of *N*-linked glycans by mass spectrometry.

CIL is proud to offer the INLIGHT™ glycan tagging kit.

Light (natural ¹²C) and heavy (¹³C₆) reagents and maltoheptaose polysaccharide standard are provided with detailed instructions on the tagging reaction. The INLIGHT™ glycan tagging kit includes a detailed protocol for *N*-linked glycan release, purification, tagging and LC/MS analysis of fetuin and RNase B glycoproteins, accompanied by comprehensive data sets. In addition, the INLIGHT™ glycan-tagging kit can be applied to complex *N*-linked glycome samples; a detailed protocol will be included demonstrating INLIGHT™ quantification of the *N*-linked glycome derived from plasma.

**Kit contains:**

- Protocol for use
- INLIGHT™ Heavy Reagent
CLM-9359 5 x 0.25 mg
2-(4-Phenethylphenyl) acetohydrazide
(4-phenethyl-ring-¹³C₆, 99%)
- INLIGHT™ Light Reagent
ULM-9358 5 x 0.25 mg
2-(4-Phenethylphenyl) acetohydrazide (unlabeled)
- Maltoheptaose (unlabeled)
ULM-9398 5 x 10 µg



1. Walker, S.H.; Lilley, L.M.; Enamorado, M.F.; Comins, D.L.; Muddiman, D.C. **2011**. Hydrophobic Derivatization of *N*-linked Glycans for Increased Ion Abundance in Electrospray Ionization Mass Spectrometry. *J Am Soc Mass Spectrom*, 22, 1309-1317.

2. Walker, S.H.; Taylor, A.D.; Muddiman, D.C. **2013**. Individuality Normalization when Labeling with Isotopic Glycan Hydrazide Tags (INLIGHT): A Novel Glycan-Relative Quantification Strategy. *J Am Soc Mass Spectrom*, 24, 1376-1384.