



CIL

Cambridge Isotope Laboratories, Inc.
isotope.com

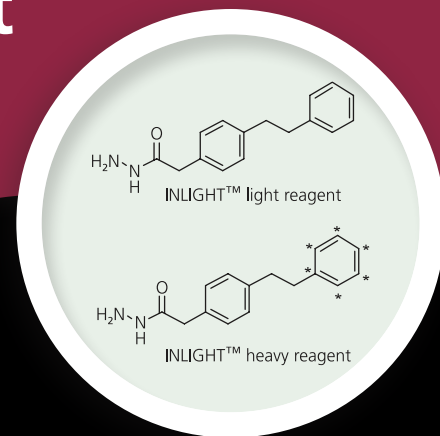
RESEARCH PRODUCTS

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.

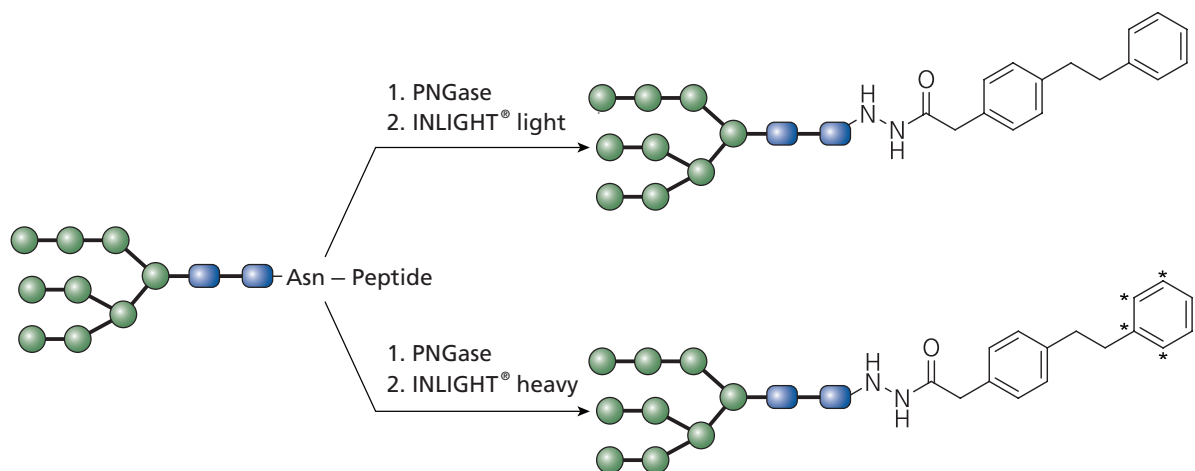


CIL is proud to offer the INLIGHT® glycan-tagging kit.

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 × 0.25 mg
2-(4-Phenethylphenyl) acetohydrazide
(4-phenethyl-ring-¹³C₆, 99%)
- INLIGHT® Light Reagent
ULM-9358 5 × 0.25 mg
2-(4-Phenethylphenyl) acetohydrazide (unlabeled)
- Maltoheptaose (unlabeled)
ULM-9398 5 × 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.