

New **Conjugation Reagents Selectively Reacting with Cysteine Residues N-Terminal**



- Incorporates a functional group to N-terminal cysteine residue in peptides and proteins selectively.
- Can be used for sequential conjugation in combination with click reactions.

An N-terminal cysteine residue (NCy) is a useful target for site-specific N-terminal labeling for protein synthesis. The cyclopropenone (CPO) group reacts specifically with the NCys of peptides and proteins to form bonds. The reaction is highly biocompatible and highly selective, independent of the presence of other cysteine residues in the peptide or protein or thiol groups in DL-dithiothreitol.

C3904, C3948 and C3916 have azido groups or alkyne moieties such as DBCO. Therefore, these reagents are useful for site-specific cysteine labeling of proteins and for sequential conjugation in combination with click reactions.



Reference A. Istrate, G. J. L. Bernardes, et al., J. Am. Chem. Soc. 2022, 23, 10396. https://doi.org/10.1021/jacs.2c02185

Related Product

Tris(2-carboxyethyl)phosphine Hydrochloride **DL-Dithiothreitol**

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