

Product Datasheet

Protein Thiolation Optimization Kit 419-0005

Unit Size: 5 mg

Store at -20C.

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419-0005**Protein Thiolation Optimization Kit**

| Product Information | |
|--------------------------------|--|
| Unit Size | 5 mg |
| Concentration | Concentration is not relevant for this product. Please see the protocols for proper use of this product. |
| Storage | Store at -20C. |
| Product Description | |
| Description | <p>Maleimide activated labels are designed to facilitate the conjugation of the desired label to either antibodies, proteins, peptides or ligands that contain a sulfhydryl (-SH) group. The reactive maleimide groups that have been added to the label allows conjugation reactions to be performed very efficiently at physiological pH for superior performance.</p> <p>FeaturesCompatible protein thiolation kit available BenefitsNo specialist knowledge required CompatibleCovalent bond Highly stableHighly stable conjugates Maleimide activated labelsMaleimide activated labels can be used with a range of biomolecules, including oligonucleotides FlexibleFlexible ScalableScalable Easy transfer from R&D to manufacturingEasy transfer from R&D to manufacturing Stringently QC testedStringently QC tested Consistent high quality, excellent batch-to-batch reproducibilityConsistent high quality, excellent batch-to-batch reproducibility Traditional, well-known conjugation chemistryTraditional, well-known conjugation chemistry Trusted methodTrusted method</p> <p>If the biomolecule does not have a free thiol group, it will require activation to generate a free thiol group prior to conjugation with the maleimide label:</p> <p>1. Protein Thiolation Kit</p> <p>Designed to facilitate the conjugation of proteins to our maleimide-activated labels. Simply add your protein solution to the lyophilized thiolation reagents to activate your protein. These kits are designed to activate 2mg or 5mg of your protein.</p> <p>Each thiolation kit is also supplied with a thiolation detection kit provided as a positive test for protein thiolation, giving you the option to confirm the chemistry is working.</p> <p>2. Thiol Quantification Kit</p> <p>The thiol quantification assay kit allows you to quantify the amount of thiol/sulfhydryl (-SH) groups in samples of thiolated proteins or antibodies. Quantifying the number of free thiols in a sample can be useful in a number of applications and allows for a more controlled conjugation reaction.</p> <p>The assay is in a convenient 96-well plate format and contains all the necessary reagents required.</p> |
| Specificity/Sensitivity | Lightning-Link technology can also be used to label proteins, peptides and other biomolecules (See protocol for further information). |
| Kit Components | 1 glass vial of Thiolation reagent, 1 bottle of Cleanup reagent, 1 bottle of Protein Resuspension buffer, 1 tube of Thiol Detection reagent, 1 tube of Thiol Detection buffer |
| Notes | This product is manufactured by Expedeon Inc. and distributed by Novus Biologicals. |



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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