

Product Datasheet

Protein Thiolation Optimization Kit 419-0002

Unit Size: 2 mg

Store at -20C.

www.novusbio.com



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Publications: 1

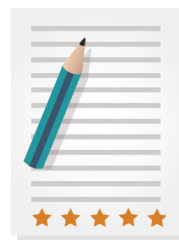
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Updated 12/13/2023 v.20.1

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419-0002**Protein Thiolation Optimization Kit**

Product Information	
Unit Size	2 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	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. FeaturesCompatible protein thiolation kit available BenefitsNo specialist knowledge required Covalent bond Highly stable conjugates Maleimide activated labels can be used with a range of biomolecules, including oligonucleotides Flexible Scalable Easy transfer from R&D to manufacturing Stringently QC tested Consistent high quality, excellent batch-to-batch reproducibility Traditional, well-known conjugation chemistry Trusted method 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: 1. Protein Thiolation Kit 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. 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. 2. Thiol Quantification Kit 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. The assay is in a convenient 96-well plate format and contains all the necessary reagents required.
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.

Publications

Kirk LM, Waits CMK, Bashore AC et al. Exploiting three-dimensional human hepatic constructs to investigate the impact of rs174537 on fatty acid metabolism PloS one 2022-01-20 [PMID: 35051193]



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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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