

Product Datasheet

Maleimide Activated KLH 409-0002

Unit Size: 2 mg

Store at -20C. Avoid freeze-thaw cycles.

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Updated 2/13/2020 v.20.1

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409-0002**Maleimide Activated KLH**

Product Information	
Unit Size	2 mg
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Buffer	Supplied as freeze dried formulations
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 Covalent bond Highly stable conjugates Maleimide activated labels can be used with a range of biomolecules, including oligonucleotides FlexibleScalable 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</p> <p>Maleimide activated labelsMaleimide - RPE Maleimide - HRP Maleimide - Alkaline Phosphatase Maleimide - APC Maleimide-Streptavidin Maleimide-Ovalbumin Maleimide-BSA Maleimide - KLH</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	Maleimide-activated KLH is designed to facilitate the conjugation of the KLH (Keyhole Limpet Hemocyanin) to proteins, peptides and ligands that contain sulfhydryl (-SH) groups. The added maleimide groups allow conjugation reactions to be performed very efficiently at physiological pH.



Notes

Molecules that do not contain -SH groups can be chemically modified to introduce the required thiol functionality. In the case of antibodies, disulfide (S-S) bridges may also be cleaved to release free thiols.

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. Support products are guaranteed for 6 months from date of receipt.

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