

Product Datasheet

InnovaCoat (R) GOLD - Carboxyl 400D 40nm 3400-0005

Unit Size: 200 ug

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/3400-0005

Updated 4/29/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/3400-0005



3400-0005

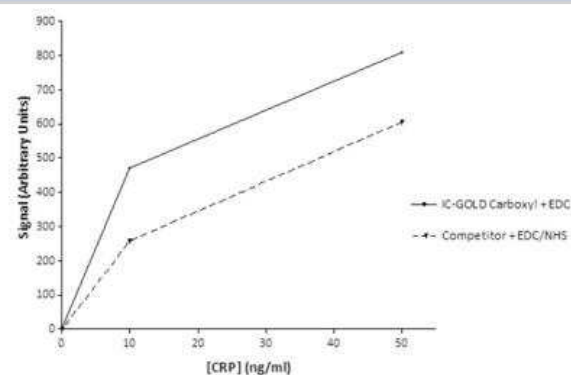
InnovaCoat (R) GOLD - Carboxyl 40OD 40nm

Product Information	
Unit Size	200 ug
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C. Do not freeze.
Product Description	
Description	<p> Composition: 40 carboxyl gold 40 OD Size: 40nm Adsorption max: 530nm OD: 40.0 Particle per ml: 36 x 10¹¹ Volumn: 1 ml and 5 ml Buffer: 10 mM EPPS, pH 8.5 </p> <p>InnovaCoat GOLD-Carboxyl nanoparticles are coated gold nanoparticles functionalized with carboxyl groups that allow the covalent conjugation of antibodies, using the water soluble carbodiimide crosslinker EDC.</p> <p>The product enables the generation of highly stable covalent gold-antibody conjugates at R&D and manufacturing scales.</p> <p>Unlike traditional EDC/NHS coupling used to activate carboxyl groups, InnovaCoat GOLD-Carboxyl nanoparticles are optimized for single step EDC covalent coupling without signs of aggregation. This eliminates the need for EDC/NHS pre-activation and washing steps associated with traditional conjugations.</p> <p>This process is also significantly faster than standard methods, with conjugates ready to use in less than 35 minutes.</p> <p>InnovaCoat GOLD carboxyl nanoparticles have a narrow size distribution, a uniform spherical shape and high batch-to-batch consistency.</p> <p>Mean DiameterSDCV%36 - 44nm< 4nm< 10%</p>
Notes	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact technical@novusbio.com with questions.</p>



Images

Flow Cytometry: InnovaCoat GOLD - Carboxyl 400D 40nm Antibody Labeling Kit [3400-0005] - Lateral Flow Assay of our 40nm InnovaCoat GOLD-Carboxyl gold nanoparticles conjugated with EDC (1 step) to a monoclonal anti-CRP antibody (mAb1) titrated against CRP in buffer compared to a 2 steps EDC/NHS reaction using a competitor's 40nm carboxyl-gold. The 40nm InnovaCoat GOLD-Carboxyl conjugate shows a better sensitivity than the competitor, no aggregation is seen and requires only 35 minutes to make. Following the competitor's instruction, their product required from 3 to 5 hours for the EDC/NHS activation and conjugation reaction and significant optimization to prevent aggregation.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/3400-0005

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

