

N²-cGMP caproKit™ 50 Reactions

List of components

N²-cGMP Capture Compound™

The N²-cGMP caproKit™ allows a selective isolation of cGMP-binding proteins. The synthetic N²-cGMP Capture Compound™ (Figure 1) uses cyclic guanosine-monophosphate (cGMP) as selectivity function to interrogate native proteins. cGMP is attached via an aminoethyl group at N² to the Capture Compound Scaffold. The Capture Compound Mass Spectrometry (CCMS) technology enables analysis, discovery and characterization of cGMP-binding proteins through an efficient reduction of the complexity of the proteome.

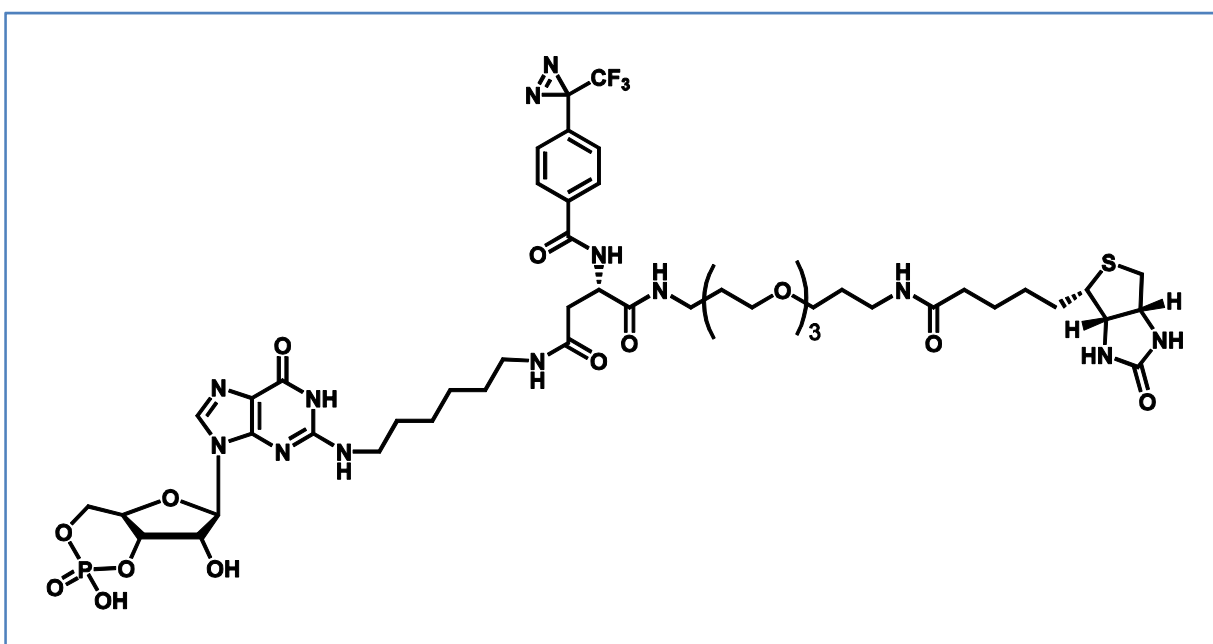


Figure 1: N²-cGMP Capture Compound™ for selective isolation of cGMP-binding proteins using cGMP as selectivity function.

Item No	Component	Amount	Buffer composition
2-3010-050	Streptavidin coated magnetic beads (10 mg/ml SA-MB)	2.8 ml	Dynal Dynabeads MyOne™ Streptavidin C1 (Invitrogen)
2-2100-050	Capture buffer 1 (5x CB1)	1.2 ml	HEPES, KOAc, Mg(OAc) ₂ , Glycerol, Triton X-100, pH 7.5
2-2200-050	Wash buffer 1 (5x WB1)	25 ml	Tris-HCl, EDTA, NaCl, Octyl-β-D-glucopyranoside, pH 7.9
2-1040-050	N ² -cGMP Capture Compound™ (N ² -cGMP-CC, 100 μM)	1.4 ml	Water
2-4040-050	cGMP competitor (40 mM)	0.6 ml	Water
2-5040-050	PKA RI (43 kDa, 16 μM)	5 μl	NaCl, K ₂ HPO ₄ , EDTA, Glycerol, β-mercaptoethanol, pH 6.8
3-4011-000	12 PCR Tube strips 0.2 ml (AB-1114)	5	

Note: The PKA RI solution will not freeze due to the glycerol in the storage buffer. It is recommended to aliquot the N²-cGMP Capture Compound™ solution upon arrival to avoid multiple freezing/thawing cycles of the stock solution. Protect the N²-cGMP Capture Compound™ from direct light.

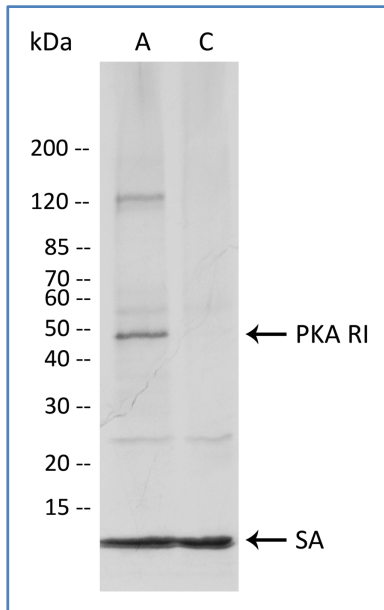
Separate 1.5 ml 5x WB1 in a fresh 2.0 ml tube for the assay. Dilute the rest of the 5x WB1 in a ratio of 1:5 in aqua bidest for washing steps and store at -20 °C to -18 °C. **Do not freeze the Streptavidin coated magnetic beads!** All solutions must be entirely thawed and mixed before usage.

Storage notification

Item No	Component	During shipment (max 3 days)	After receipt
2-3010-050	Streptavidin coated magnetic beads (10 mg/ml SA-MB)	4 to 8 °C	4 to 8 °C
2-2100-050	Capture buffer 1 (5x CB1)	4 to 8 °C	- 20 to -18 °C
2-2200-050	Wash buffer 1 (5x WB1)	4 to 8 °C	- 20 to -18 °C
2-1040-050	N ² -cGMP Capture Compound™ (N ² -cGMP-CC, 100 μM)	4 to 8 °C	- 20 to -18 °C
2-4040-050	cGMP competitor (40 mM)	4 to 8 °C	- 20 to -18 °C
2-5040-050	PKA RI (43 kDa, 16 μM)	4 to 8 °C	- 20 to -18 °C

Specified Functionality

Significant band (SDS-PAGE/silver stain) with 0.5 μg (11 pmol) of PKA RI and significant competition with cGMP, when the capturing protocol described in the N²-cGMP caproKit™ guideline is applied, caproBox™ and only kit components are used.



A: Capture assay with PKA RI

C: Control of "A" using 4 mM cGMP as competitor

SA: Streptavidin from Streptavidin coated magnetic beads

Figure 2: Capture assay (A) and cGMP competition control (C) of the positive control protein PKA RI analyzed by SDS-PAGE/silver stain.

Stability

The N²-cGMP caproKit™ is stable under storage conditions for 6 months. After first use microbial contamination may occur.

Please read the material safety data sheet for this product at www.caprotec.com

Berlin, 08/23/2010



Head of Quality Control

Contact and order information:

Headquarters

caprotec bioanalytics GmbH

Volmerstrasse 5
D-12489 Berlin

Phone: +49 30 63 92 39 90

Fax: +49 30 63 92 39 89

Web: www.caprotec.com

Email: sales@caprotec.com

caprotec Inc., USA

15 New England Executive Office Park
Burlington, MA 01803, USA

Phone: +1 781 685 4992

Fax: +1 781 685 4601

Web: www.caprotec.com

Email: sales@caprotec.com

Ordering information: caprotec part number: 1-1040-050

Copyright

© 2008-2010 caprotec bioanalytics GmbH. All rights reserved. Reproduction in whole or in part only with permission of caprotec bioanalytics GmbH.

Trademarks

caproKit, caproBox, caprotec, caproBeads, caproMag, ImproMed and Capture Compound are trademarks of caprotec bioanalytics GmbH. All other used tradenames or trademarks belong to their respective owners.

Products & Services

CCMS technology is made available as ready to use caproKit reagents and services.

For more information please visit www.caprotec.com

Or contact us. Email: info@caprotec.com

Phone: +49 30 6392 4004

Products and Services are for Research use only.

© 2008-2010 caprotec bioanalytics GmbH