

## N<sup>2</sup>-cGMP caproKit™ 10 Reactions

### List of components

#### N<sup>2</sup>-cGMP Capture Compound™

The N<sup>2</sup>-cGMP caproKit™ allows a selective isolation of cGMP-binding proteins. The synthetic N<sup>2</sup>-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 N<sup>2</sup> 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.

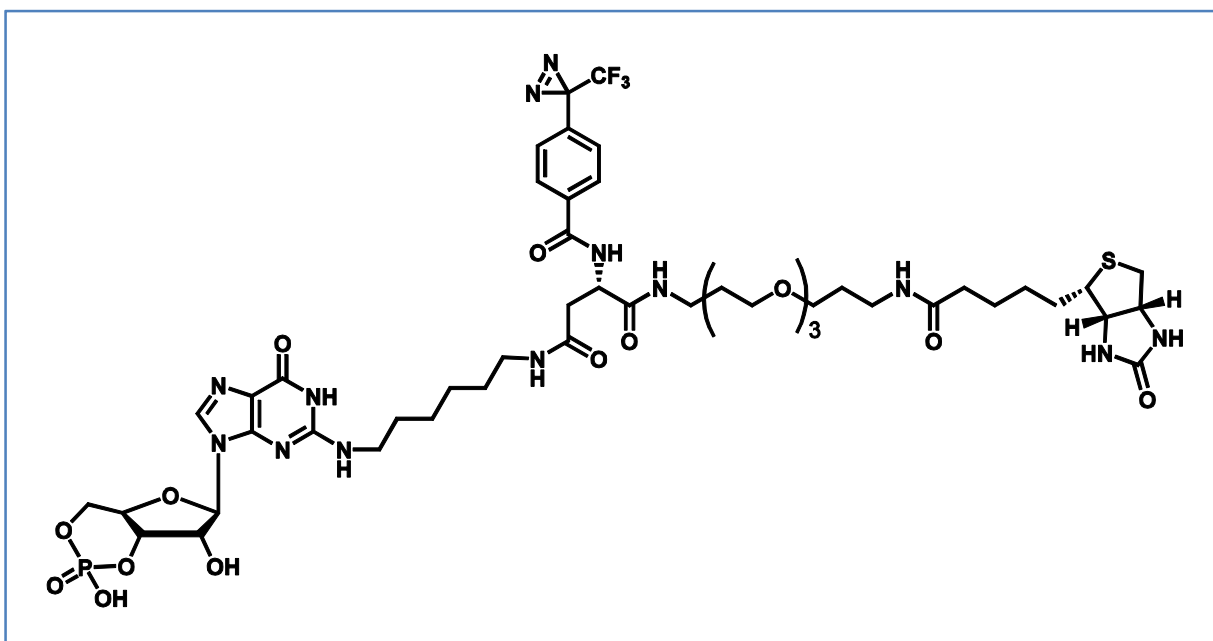


Figure 1: N<sup>2</sup>-cGMP Capture Compound for selective isolation of cGMP-binding proteins using cGMP as selectivity function.

Item No	Component	Amount	Buffer composition
2-3010-010	Streptavidin coated magnetic beads (10 mg/ml SA-MB)	0.56 ml	Dynal Dynabeads MyOne™ Streptavidin C1 (Invitrogen)
2-2100-010	Capture buffer 1 (5x CB1)	0.25 ml	HEPES, KOAc, Mg(OAc) <sub>2</sub> , Glycerol, Triton X-100, pH 7.5
2-2200-010	Wash buffer 1 (5x WB1)	4.8 ml	Tris-HCl, EDTA, NaCl, Octyl-β-D-glucopyranoside, pH 7.9
2-1040-010	N <sup>2</sup> -cGMP Capture Compound™ (N <sup>2</sup> -cGMP-CC, 100 μM)	0.3 ml	Water
2-4040-010	cGMP competitor (40 mM)	0.12 ml	Water
2-5040-010	PKA RI (43 kDa, 16 μM)	3 μl	NaCl, K <sub>2</sub> HPO <sub>4</sub> , EDTA, Glycerol, β-mercaptoethanol, pH 6.8
3-4011-000	12 PCR Tube strips 0.2 ml (AB-1114)	1	

**Note:** The PKA RI solution will not freeze due to the glycerol in the storage buffer. Protect the N<sup>2</sup>-cGMP Capture Compound™ from direct light.

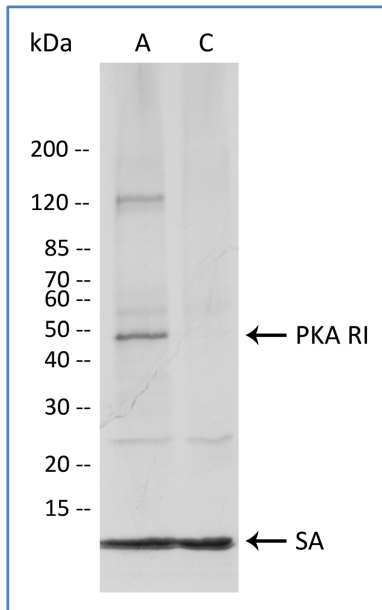
**Separate 300 μl 5x WB1 in a fresh 1.5 ml tube for the assay.** Dilute the rest of the 5x WB1 in a ratio of 1:5 in aqua bidest for washing steps and store at -20 °C to -18 °C. **Do not freeze the Streptavidin coated magnetic beads!** All solutions must be entirely thawed and mixed before usage.

## Storage notification

Item No	Component	During shipment (max 3 days)	After receipt
2-3010-010	Streptavidin coated magnetic beads (10 mg/ml SA-MB)	4 to 8 °C	4 to 8 °C
2-2100-010	Capture buffer 1 (5x CB1)	4 to 8 °C	- 20 to -18 °C
2-2200-010	Wash buffer 1 (5x WB1)	4 to 8 °C	- 20 to -18 °C
2-1040-010	N <sup>2</sup> -cGMP Capture Compound (N <sup>2</sup> -cGMP-CC, 100 μM)	4 to 8 °C	- 20 to -18 °C
2-4040-010	cGMP competitor (40 mM)	4 to 8 °C	- 20 to -18 °C
2-5040-010	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  $\mu$ g (11 pmol) of PKA RI and significant competition with cGMP, when the capturing protocol described in the N<sup>2</sup>-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 N<sup>2</sup>-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](http://www.caprotec.com)

Berlin, 08/23/2010



Head of Quality Control

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

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