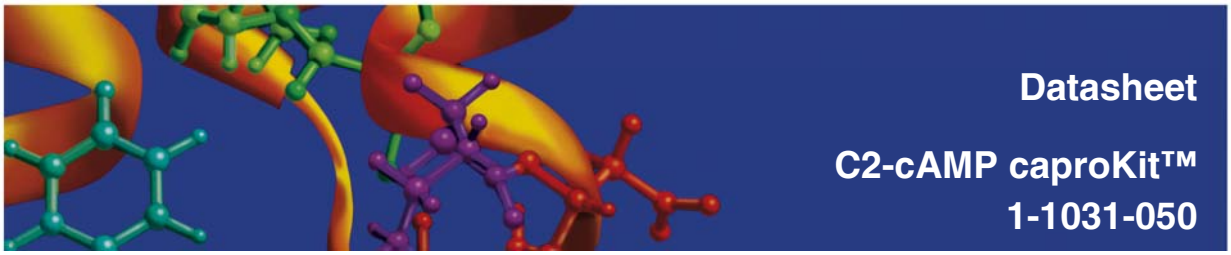


Datasheet

C2-cAMP caproKit™
1-1031-050

C2-cAMP caproKit™ 50 Reactions

List of components

C2-cAMP Capture Compound™

The C2-cAMP caproKit™ allows a selective isolation of cAMP-binding proteins. The synthetic C2-cAMP Capture Compound™ (Figure 1) uses cyclic adenosyl-monohosphate (cAMP) as selectivity function to interrogate native proteins. cAMP is attached via an aminohexylamino group at C2 to the Capture Compound Scaffold. The Capture Compound Mass Spectrometry (CCMS) technology enables analysis, discovery and characterization of cAMP-binding proteins through an efficient reduction of the complexity of the proteome.

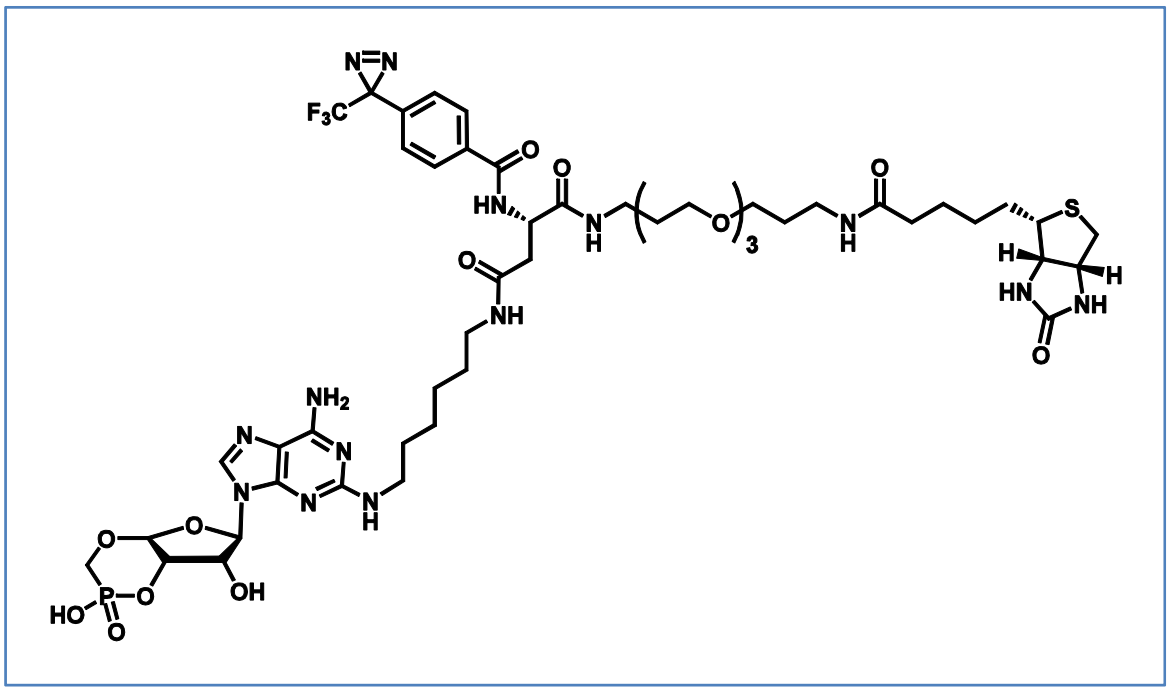


Figure 1: C2-cAMP Capture Compound™ for the selective isolation of cAMP-binding proteins using cAMP as selectivity function.

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
2-1031-050	C2-cAMP Capture Compound™ (C2-cAMP-CC, 100 µM)	1.5 ml	Water
2-4031-050	cAMP competitor (20 mM)	1.2 ml	HEPES, pH 7.5
2-5040-050	PKA RI (43 kDa, 16 µM)	5 µl	NaCl, K_2HPO_4, EDTA, Glycerol, ß-mercaptoethanol, pH 6.8
3-4011-000	12 PCR Tube strips 0.2 ml (AB-1114)	5	

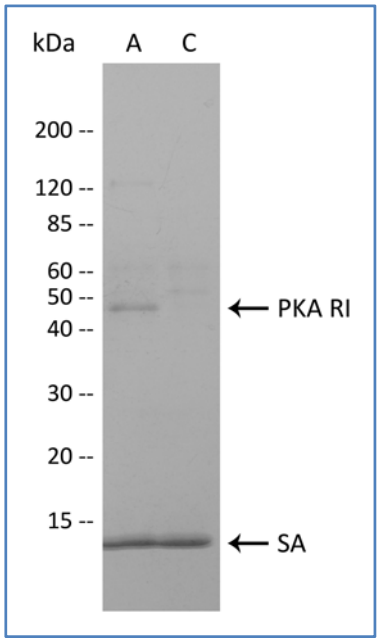
Note: The PKA RI solution will not freeze due to the glycerol in the storage buffer. It is recommended to aliquot the C2-cAMP Capture Compound™ solution upon arrival to avoid multiple freezing/thawing cycles of the stock solution. Protect the C2-cAMP Capture Compound™ from direct light.
Separate 1.5 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
2-1031-050	C2-cAMP Capture Compound™ (C2-cAMP-CC, 100 µM)	4 to 8 °C	- 20 to -18 °C
2-4031-050	cAMP competitor (20 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 cAMP, when the capturing protocol described in the C2-cAMP caproKit™ guideline is applied, caproBox™ and only kit components are used.



A: Capture assay with PKA RI

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

SA: Streptavidin from Streptavidin coated magnetic beads

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

Stability

The C2-cAMP 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, 09/09/2010

Head of Quality Control

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Products & Services

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

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