



cAMP caproKit™ complete

List of components

cAMP Capture Compounds™

The cAMP caproKit™ complete allows a selective isolation of cAMP-binding proteins and consists of the C8-cAMP, C2-cAMP, and N⁶-cAMP Capture Compound™ (Figure 1).

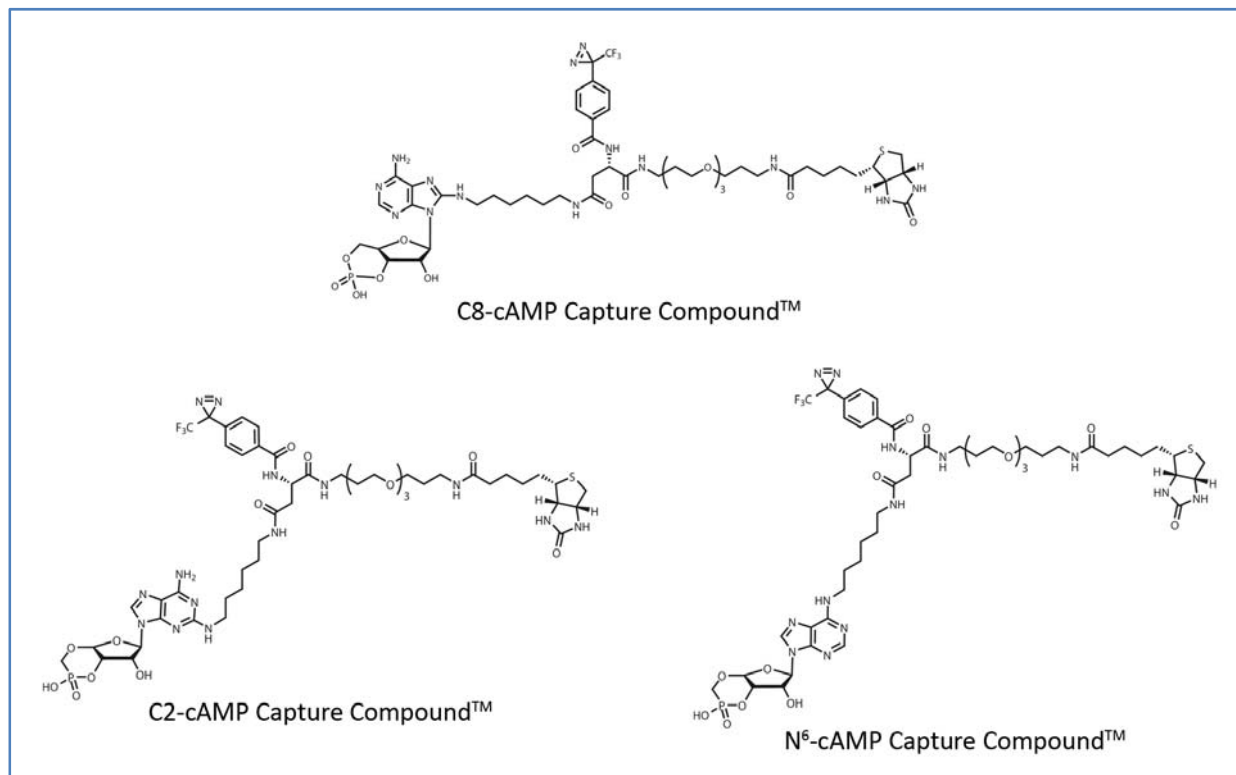


Figure 1: C8-cAMP, C2-cAMP, and N⁶-cAMP Capture Compound™ for selective isolation of cAMP-binding proteins using cAMP as selectivity function.

The synthetic C8-cAMP Capture Compound™ uses cyclic adenosyl-monophosphate (cAMP) as selectivity function to interrogate native proteins. cAMP is attached via an aminohexylamino group at C8 to the Capture Compound Scaffold. The synthetic C2-cAMP Capture Compound™ uses cyclic adenosyl-monophosphate (cAMP) as selectivity function to interrogate native proteins. cAMP is attached via an aminohexylamino group at C2 to the Capture Compound Scaffold. The synthetic N⁶-cAMP Capture Compound™ uses cyclic adenosyl-monophosphate (cAMP) as selectivity function to interrogate native proteins. cAMP is attached via an aminohexyl group at N⁶ 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.

Item No	Component	Amount	Buffer composition
2-3010-010	Streptavidin coated magnetic beads (10 mg/ml SA-MB)	1.68 ml	Dynal Dynabeads MyOne™ Streptavidin C1 (Invitrogen)
2-2100-010	Capture buffer 1 (5x CB1)	0.75 ml	HEPES, KOAc, Mg(OAc) ₂ , Glycerol, Triton X-100, pH 7.5
2-2200-010	Wash buffer 1 (5x WB1)	14.4 ml	Tris-HCl, EDTA, NaCl, Octyl-β-D-glucopyranoside, pH 7.9
2-1030-010	C8-cAMP Capture Compound™ (C8-cAMP-CC, 100 μM)	0.3 ml	Water
2-1031-010	C2-cAMP Capture Compound™ (C2-cAMP-CC, 100 μM)	0.3 ml	Water
2-1032-010	N ⁶ -cAMP Capture Compound™ (N ⁶ -cAMP-CC, 100 μM)	0.3 ml	HEPES, pH 7.5
2-4031-010	cAMP competitor (20 mM)	0.72 ml	HEPES, pH 7.5
2-5040-010	PKA RI (43 kDa, 16 μM)	9 μl	NaCl, K ₂ HPO ₄ , EDTA, Glycerol, α -mercaptoethanol, pH 6.8
3-4011-000	12 PCR Tube strips 0.2 ml (AB-1114)	3	

Note: The PKA RI solution will not freeze due to the glycerol in the storage buffer. Protect the C8-cAMP, C2-cAMP, and N⁶-cAMP Capture Compound™ from direct light.

Separate 900 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
2-1030-010	C8-cAMP Capture Compound™ (C8-cAMP-CC, 100 µM)	4 to 8 °C	- 20 to -18 °C
2-1031-010	C2-cAMP Capture Compound™ (C2-cAMP-CC, 100 µM)	4 to 8 °C	- 20 to -18 °C
2-1032-010	N ⁶ -cAMP Capture Compound™ (N ⁶ -cAMP-CC, 100 µM)	4 to 8 °C	- 20 to -18 °C
2-4031-010	cAMP competitor (20 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 µg (11 pmol) of PKA RI and significant competition with cAMP, when the capturing protocol described in the cAMP caproKit™ complete guideline is applied, caproBox™ and only kit components are used.

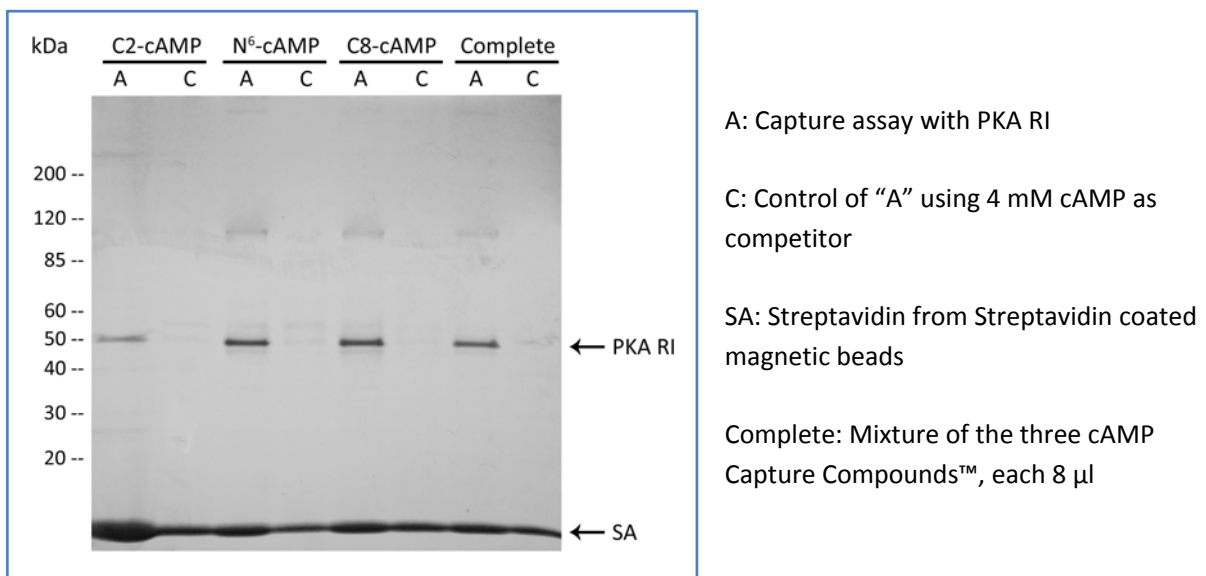


Figure 2: Capture assay (A) and cAMP competition control (C) of the positive control enzyme PKA RI analyzed by SDS-PAGE/silver stain.

Stability

The cAMP caproKit™ complete 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

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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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