

caprotec offers customized Capture Compounds™ for academic partners

Capture Compound Mass Spectrometry (CCMS) is an innovative technology to analyze small molecule - protein interactions. The technology is based on Capture Compounds™, small synthetic molecules which interrogate native proteins in complex samples. CCMS enables a complexity reduction of biological samples and the gel-free LC-MS/MS-based analysis and identification of targeted proteins. Thus, CCMS allows discovering, isolating and profiling members of functional protein families within a variety of biological samples. With its high reproducibility and efficiency the CCMS technology is poised to play an important role in analyzing the structure and function of cellular proteins.

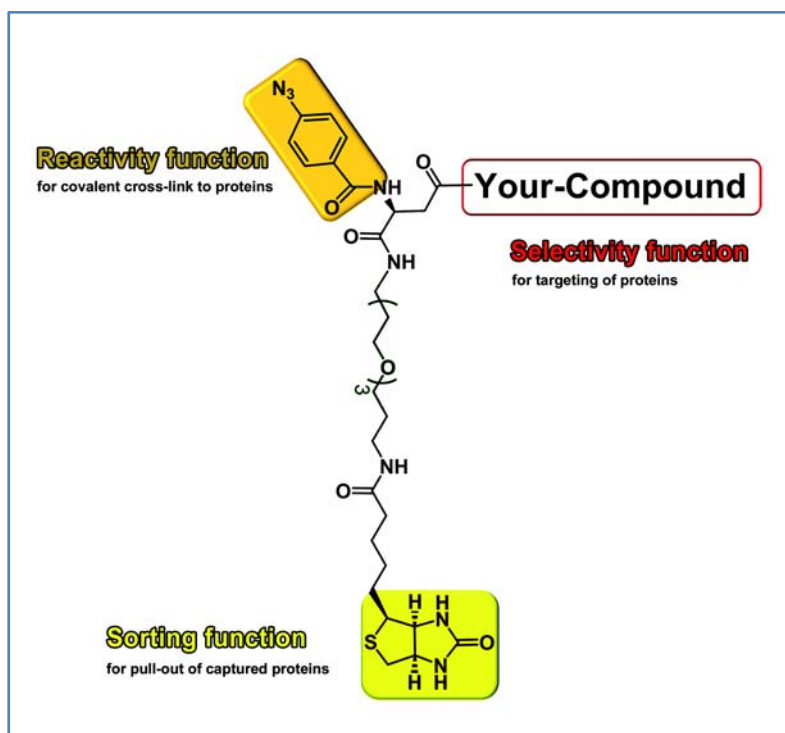


Figure 1 The Scaffold is the basis for functional different Capture Compounds

The core of Capture Compounds, the Scaffold, consists of a reactivity function, spacer, and sorting function, which is the basis for the synthesis of different Capture Compounds (Figure 1). caprotec bioanalytics offers the synthesis of customized Capture Compounds with selectivity functions based on a small molecule of your choice. The design and synthesis of customized Capture Compounds is

an interactive process with the collaboration partner. An exemplified workflow of this process is provided in Figure 2. In this scenario, caprotec provides the customized Capture Compound and the partner performs the isolation and analysis of interacting proteins in their own research facility. This process can be adapted based on the needs of the respective partner.

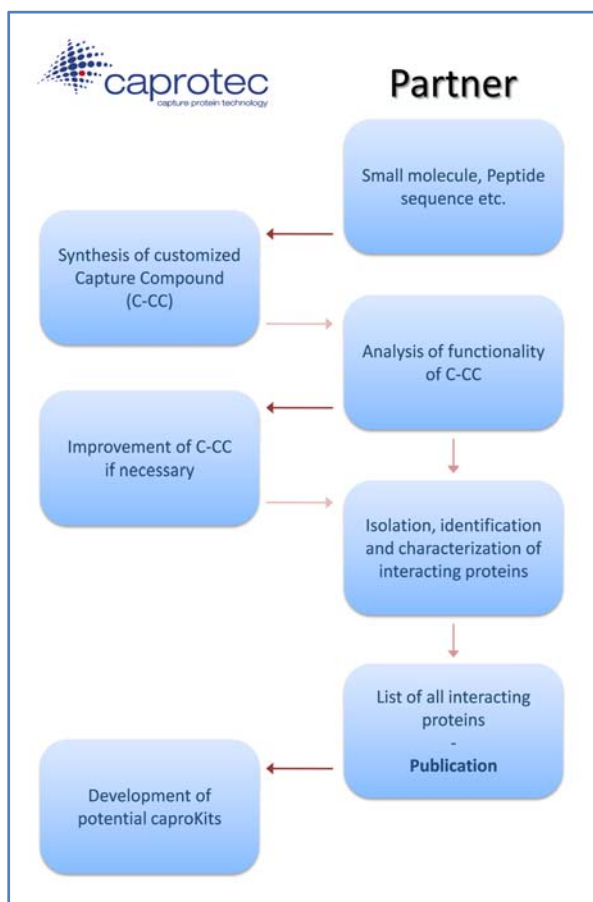


Figure 2 Workflow for generating a customized Capture Compound with a partner

Capture Compounds are also available as caproKits™ from caprotec bioanalytics. Currently available caproKits provide components with staurosporine, cAMP, and SAH selectivity functions to target kinases, methyltransferases and other SAM binding proteins.

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Entry in Commercial Register:
Registered Seat: Berlin, Germany
Register court: AG Berlin (Charlottenburg)
HRB 100 170 B
VAT Identification Number: 37/123/21157
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Rev. 1.2 01/12

Products & Services

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

For more information please visit www.caprotec.com

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