



Dasatinib caproKit™ 50 Reactions

List of components

Dasatinib Capture Compound™

The Dasatinib caproKit™ allows a selective isolation of Dasatinib-binding proteins in particular tyrosine kinases. The synthetic Dasatinib Capture Compound™ (Figure 1) uses 2-(6-(4-(2-aminoethyl)piperazin-1-yl)-2-methylpyrimidin-4-ylamino)-*N*-(2-chloro-6-methylphenyl)thiazole-5-carboxamide (Dasatinib-amine) as selectivity function to interrogate native proteins. Dasatinib-amine is attached via the amino group to the Capture Compound Scaffold. The Capture Compound Mass Spectrometry (CCMS) technology enables analysis, discovery and characterization of Dasatinib-binding proteins through an efficient reduction of the complexity of the proteome.

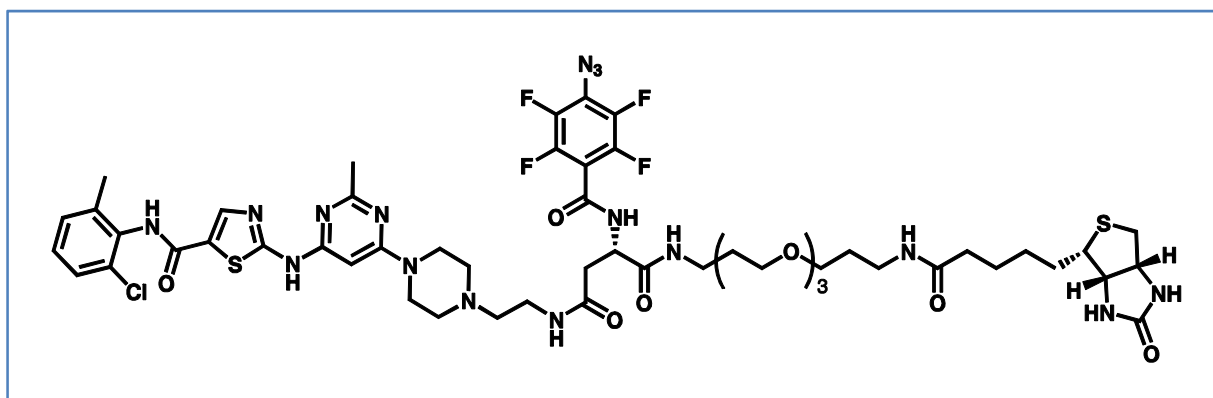


Figure 1: Dasatinib Capture Compound™ for the selective isolation of Dasatinib-binding proteins using Dasatinib as selectivity function.

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
2-1080-050	Dasatinib Capture Compound™ (Dasatinib-CC, 50 μM)	0.6 ml	Water, HCl, NaOH, pH 6.0
2-4080-050	Dasatinib competitor (1 mM)	1.2 ml	HEPES, Glycerol, Triton X-100, pH 7.5
2-5080-050	Src-GST (89.7 kDa, 1.03 μM)	48 μl	Tris-HCl, NaCl, DTT, Glycerol, pH 8.0
3-4011-000	12 PCR Tube strips 0.2 ml (AB-1114)	5	

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

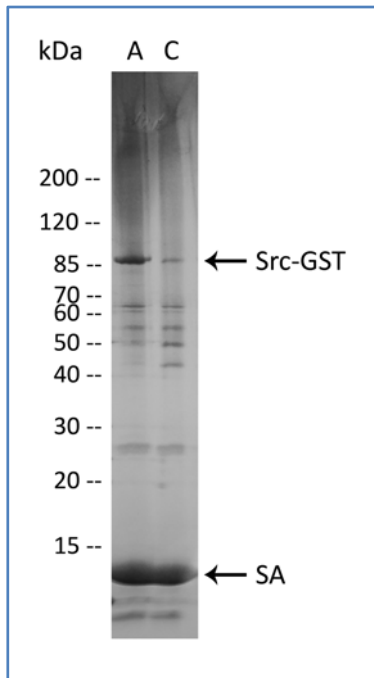
Separate 1.5 ml 5x WB1 in a fresh 2.0 ml tube for the assay. Dilute the rest of the 5x WB1 in a ratio of 1:5 in aqua bidest for washing steps and store at -20 °C to -18 °C. **Do not freeze the Streptavidin coated magnetic beads!** All solutions must be entirely thawed and mixed before usage.

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
2-1080-050	Dasatinib Capture Compound™ (Dasatinib-CC, 50 μM)	4 to 8 °C	- 20 to -18 °C
2-4080-050	Dasatinib competitor (1 mM)	4 to 8 °C	- 20 to -18 °C
2-5080-050	Src-GST (89.7 kDa, 1.03 μM)	4 to 8 °C	- 20 to -18 °C

Specified Functionality

Significant band (SDS-PAGE/silver stain) with 0.9 µg (10 pmol) of Src-GST and significant competition with Dasatinib, when the capturing protocol described in the Dasatinib caproKit™ guideline is applied, caproBox™ and only kit components are used.



A: Capture assay with Src-GST

C: Control of "A" using 0.2 mM Dasatinib as competitor

SA: Streptavidin from Streptavidin coated magnetic beads

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

Stability

The Dasatinib caproKit™ is stable under storage conditions for 6 months. The Dasatinib Capture Compound may precipitate after 2 months without decomposition. The whole material can be retained by freeze drying the material and re-dissolving in the same volume of 0.1% formic acid in water. 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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Products & Services

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

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