



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Anti-Beta Lactamase [cAbTEM13] Bulk Size Ab03503-1.159-BT

**Isotype and Format:** Mouse IgG1-Fc fusion

**Clone Number:** cAbTEM13

**Alternative Name(s) of Target:** β-Lactamase; bla; Beta-lactamase TEM; IRT-4; Penicillinase; TEM-1 β-lactamase; cAb-TEM13

**UniProt Accession Number of Target Protein:** P62593

**Published Application(s):** inhibit, ELISA

**Published Species Reactivity:** Escherichia coli

**Immunogen:** The original antibody was generated by immunizing adult dromedary (*Camelus dromedarius*) with TEM-1 β-lactamase.

**Specificity:** This antibody binds an enzyme called beta-lactamase produced by bacteria, which catalysis the breaking of the beta-lactam ring of beta-lactam antibiotics such as penicillin, cephalosporin, cephamycin and monobactam through hydrolysis. The breaking of the beta-lactam ring deactivates the antibacterial properties of the antibiotic molecule and provides antibiotic resistance in bacteria.

**Application Notes:** The binding reactivity of this antibody to TEM-1 beta-lactamase was determined using ELISA. This antibody was capable of inhibiting beta-lactamase activity in vitro with an IC<sub>50</sub> of 0.08 µM. The in vivo inhibition activity of this antibody to inhibit surface-exposed TEM-1 and prevent bacterial growth was assessed by preincubating cells expressing TEM-1 with increasing amounts of the antibody fragment. It was reported that when cells were preincubated with cAbTem13 before plating lost their ability to neutralize the antibiotic ampicillin (PMID: 11557473).

**Antibody First Published in:** Conrath et al. β-Lactamase inhibitors derived from single-domain antibody fragments elicited in the Camelidae. *Antimicrob Agents Chemother.* 2001 Oct; 45(10): 2807-2812.

[PMID:11557473](#)

**Note on publication:** Describes the generation of B-lactamase inhibitory antibodies derived from camels.

## Product Form

**Size:** 500 µg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.