



# 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

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet for C300-0500

**Guinea Pig Complement (Fresh Frozen)****Overview**

<b>Description:</b>	Guinea Pig Complement (Fresh Frozen) - C300-0500
<b>Item No.:</b>	C300-0500
<b>Size:</b>	500 mL
<b>Applications:</b>	Cellular Assay, ELISA, FC, Purification
<b>Origin:</b>	Guinea Pig

**Product Details**

<b>Background:</b>	Special processing techniques are used to yield products with high complement activity and low background cytotoxicity. Guinea Pig Complement is suitable for CFT and SRH.
<b>Synonyms:</b>	Complement system, tissue macrophages, blood monocytes, protease C3-convertase, mannose-binding lectin pathway, C3, C3a, C3b, C5a, C5b, C6, C7, C8, and polymeric C9, cascade cleavage and activation events, recruit inflammatory cells, anaphylatoxin
<b>Species of Origin:</b>	Guinea Pig

**Target Details**

<b>Relevant Links:</b>	<ul style="list-style-type: none"><li><a href="#">C300 SDS</a></li></ul>
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**Application Details**

<b>Suggested Applications:</b>	Cellular Assay, ELISA, FC, Purification (Based on references)
<b>Application Note:</b>	pH: normal  Immunoelectrophoresis: normal  Hemoglobin: normal  IgG Concentration: normal

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

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## Tissue Data

**Tissue Type:** Complement

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**Sex:** Mixed

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**Strain:** Guinea Pig - Mixed

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## Formulation

**Physical State:** Fresh Frozen

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**Concentration:** 85 mg/mL by Refractometry

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**Buffer:** None

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**Sterility:** Non-sterile

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**Preservative:** None

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**Stabilizer:** None

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## Shipping & Handling

**Shipping Condition:** Dry Ice

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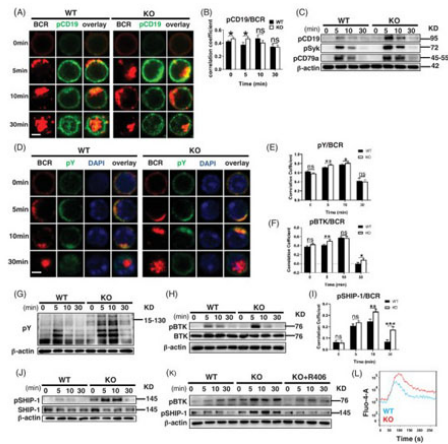
**Storage Condition:** Store Guinea Pig Complement at -70° C prior to opening. Aliquot contents and freeze at -70° C or below. Use aseptic technique to maintain sterility when opening product. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. COMPLEMENT IS A TEMPERATURE SENSITIVE PRODUCT. IMPROPER STORAGE WILL INACTIVATE COMPLEMENT ACTIVITY.

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**Expiration:** Expiration date is one (1) year from date of receipt.

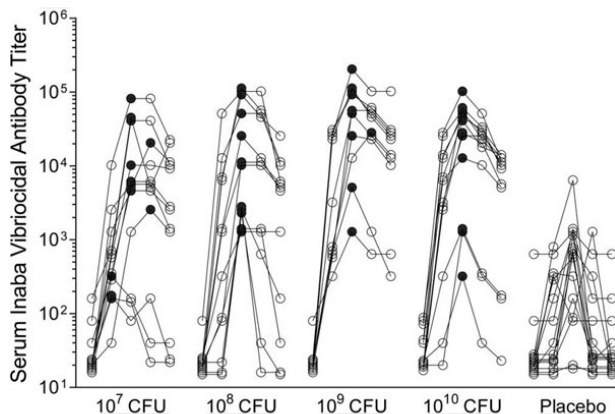
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## Images



### Immunofluorescence Microscopy

Ccr2-KO mice exhibit enhanced BCR proximal signalling. B cells were purified from splenic mononuclear cells by incubation of anti-Thy-1 and guinea pig complement (p/n C300-0500) for 30 min. Purified splenic B cells were incubated with AF546-F(ab')<sub>2</sub>-anti-mouse-Ig (M + G) at 4°C for 30 min and activated at 37°C for 5, 10 and 30 min, confocal microscopy (CFm) was performed. Cells were incubated with biotin-conjugated F(ab')<sub>2</sub>-anti-mouse-Ig (M + G) and streptavidin, then activated at 37°C for 5, 10 and 30 min, western blotting was performed. (A) Representative CFm images of phosphorylated CD19 (pCD19) and BCR (60× objective, scale bar = 2.5 μm). (B) Colocalization between pCD19 and BCR. (C) Western blotting of pCD19, pSyk, pCD79a expression in B cells. (D) Representative CFm images of pY and BCR (60× objective, scale bar = 2.5 μm). (E) Colocalization between pY and BCR. (F) Colocalization between pBTK and BCR. (G) Western blotting of pY expression in B cells. (H) Western blotting of pBTK and BTK expression in B cells. (I) Colocalisation between pSHIP-1 and BCR. (J) Western blotting of pSHIP-1 and SHIP-1 expression in B cells. (K) Western blotting of pBTK and pSHIP-1 in WT B cells, Ccr2-KO B cells and Ccr2-KO B cells treated with 5μM R406. (L) Representative image of intracellular Ca<sup>2+</sup> flux kinetics in WT and Ccr2-KO B cells following stimulation with 10 μg/ml biotin-conjugated F(ab')<sub>2</sub> anti-mouse Ig (M + G). All images were representative images from three independent experiments. The number of cells analyzed for each parameter in CFm assay was 30–50. Error bars were shown as mean (± SD). \*p < .05, \*\*p < .01, \*\*\*p < .001, ns: no statistical significance. Fig 2. PMID: 35875970.



### ELISA

Individual serum Inaba vibriocidal responses for each of the four dosages (10<sup>7</sup>, 10<sup>8</sup>, 10<sup>9</sup>, or 10<sup>10</sup> CFU) or placebo are indicated. Within each dosage group, the five circles denote (from left to right) the following five time points: baseline and 7, 10, 14, and 28 days postvaccination. A closed circle indicates the peak response for an individual. The vibriocidal antibody assay compares the amount of *V. cholerae* growth achieved in a 96-well plate when mixed with guinea pig complement (p/n C300-0050) of a standard activity and serial dilutions of the heat-inactivated human serum samples, all assayed in duplicate. FIG 1. PMID: 25410205.

## References

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## Disclaimer

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