



# SZABO SCANDIC

Part of Europa Biosite

## 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

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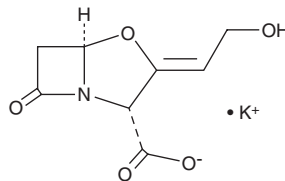
# PRODUCT INFORMATION



## Clavulanate (potassium salt)

Item No. 19456

**CAS Registry No.:** 61177-45-5  
**Formal Name:** (2R,3Z,5R)-3-(2-hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, monopotassium salt  
**Synonym:** BRL 14151K  
**MF:** C<sub>8</sub>H<sub>8</sub>NO<sub>5</sub> • K  
**FW:** 237.3  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Clavulanate (potassium salt) is supplied as a crystalline solid. It is miscible in DMSO, PBS, and dimethyl formamide.

### Description

Clavulanate is a  $\beta$ -lactamase inhibitor that is effective against Ambler class A  $\beta$ -lactamases (IC<sub>50</sub> values range from 12 to 60 nM).<sup>1</sup> While it is not an effective antibiotic by itself, clavulanate is commonly used with other antibiotics that would be inactivated by  $\beta$ -lactamases secreted by bacteria. It is often combined with amoxicillin (Item No. 19188) and other penicillin-based antibiotics.<sup>1-3</sup>

### References

1. Drawz, S. M. and Bonomo, R. A. Three decades of  $\beta$ -lactamase inhibitors. *Clin. Microbiol. Rev.* **23**(1), 160-201 (2010).
2. Chang, K. C., Yew, W. W., Tam, C. M., *et al.* WHO group 5 drugs and difficult multidrug-resistant tuberculosis: A systematic review with cohort analysis and meta-analysis. *Antimicrob. Agents Chemother.* **57**(9), 4097-4104 (2013).
3. Huang, R. L., Huang, Y. L., Ou, J. C., *et al.* Screening of 25 compounds isolated from *Phyllanthus* species for anti-human hepatitis B virus *in vitro*. *Phytother. Res.* **17**, 449-453 (2003).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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