



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### 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

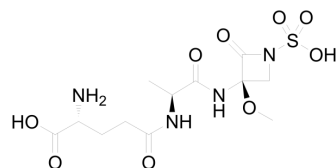
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## Isosulfazecin

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-121120   |
| CAS No.:           | 77900-75-5  |
| Molecular Formula: | C <sub>12</sub> H <sub>20</sub> N <sub>4</sub> O <sub>9</sub> S                           |
| Molecular Weight:  | 396.37  |
| Target:            | Antibiotic  |
| Pathway:           | Anti-infection  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Isosulfazecin (iSZ) is a novel  $\beta$ -lactam antibiotic produced by *Pseudomonas acidophilus* sp., synthesized in a nutrient solution supplemented with glycerol and sodium thiosulfate under aerobic conditions in parallel with bacterial growth. It is purified by chromatography and crystallization from aqueous methanol. Physicochemical analysis determined its molecular formula to be C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>9</sub>S, showing a structure with a  $\beta$ -lactam ring, methoxyl and sulfonate groups. Acid hydrolysis yields L-alanine and D-glutamic acid. iSZ is a diastereomer of sulfadiazine and exhibits moderate activity against both gram-positive and gram-negative bacteria, but potent activity against bacteria resistant to  $\beta$ -lactam antibiotics<sup>[1]</sup>.

### REFERENCES

[1]. ISOSULFAZECIN, A NEW 19-LACTAM ANTIBIOTIC, PRODUCED BY AN ACIDOPHILIC PSEUDOMONAD FERMENTATION, ISOLATION AND CHARACTERIZATION

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA