Product datasheet

Piperacillin sodium ab143438

Overview

Product name
Piperacillin sodium

Description
Extended spectrum beta-lactam antibiotic

Biological description
Extended spectrum beta-lactam antibiotic. Inhibits bacterial cell wall synthesis.

Purity
> 89%

Properties

Chemical name
Sodium (2S,5R,6R)-6-[[[2R]-2-[(4-ethyl-2,3-dioxopiperazine-1-carbonyl)amino]-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate

Molecular weight
539.54

Chemical structure

Molecular formula
C_{23}H_{26}N_{5}NaO_{7}S

CAS Number
59703-84-3

PubChem identifier
23666879

Storage instructions
Store at Room Temperature. The product can be stored for up to 12 months.

Solubility overview
Soluble in water and in ethanol

Handling
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES
CCN1CCN(C(=O)C1=O)C(=O)NC(C2=CC=CC=C2)C(=O)NC3C4N(C3=O)C(C(S4)(C(C)C(=O)[O-].[Na+])

Source
Synthetic
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team