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: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

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

Description

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

References