

CP-5609

## Chemical Properties

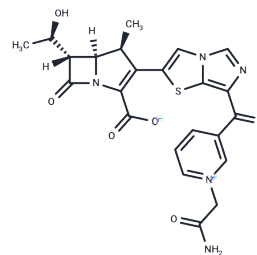
CAS No. : 432038-96-5

Formula: C<sub>23</sub>H<sub>21</sub>N<sub>5</sub>O<sub>6</sub>S

Molecular Weight: 495.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CP-5609 is a new class of carbapenems with enhanced antimicrobial activity.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0181 mL	10.0906 mL	20.1812 mL
5 mM	0.4036 mL	2.0181 mL	4.0362 mL
10 mM	0.2018 mL	1.0091 mL	2.0181 mL
50 mM	0.0404 mL	0.2018 mL	0.4036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Hirai Y, Takahata S, Yamada K, Ida T, Maebashi K. Correlation of the antimicrobial activity of ME1036 with its binding affinities to the penicillin-binding proteins from *Streptococcus pneumoniae* strains. *J Antibiot (Tokyo)*. 2011 Nov;64(11):741-6. doi: 10.1038/ja.2011.76. Epub 2011 Aug 24. PubMed PMID: 21863036.

Morrissey I, Biek D, Janes R. ME1036, a novel carbapenem, with enhanced activity against clinical isolates causing bacteraemic community-acquired pneumonia. *J Antimicrob Chemother*. 2009 Jul;64(1):209-10. doi: 10.1093/jac/dkp163. Epub 2009 May 9. PubMed PMID: 19429928.

Yanagihara K, Ohnishi Y, Morinaga Y, Nakamura S, Kurihara S, Seki M, Izumikawa K, Takeya H, Yamamoto Y, Yamada Y, Kohno S, Kamihira S. Efficacy of ME1036 against methicillin-resistant *Staphylococcus aureus* and vancomycin-insensitive *S. aureus* in a model of haematogenous pulmonary infection. *Int J Antimicrob Agents*. 2008 Nov;32(5):401-4. doi: 10.1016/j.ijantimicag.2008.04.030. Epub 2008 Aug 19. PubMed PMID: 18715761.

Fenoll A, Aguilar L, Robledo O, Giménez MJ, Granizo JJ, Biek D, Tarragó D. In vitro activity of ME1036 versus other beta-lactams against penicillin-resistant *Streptococcus pneumoniae* serotypes exhibiting higher amoxicillin than penicillin MIC. *J Antimicrob Chemother*. 2008 Nov;62(5):1156-8. doi: 10.1093/jac/dkn314. Epub 2008 Jul 30. PubMed PMID: 18667449.

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