

## Tedizolid HCl (856866-72-3 free base)

### Chemical Properties

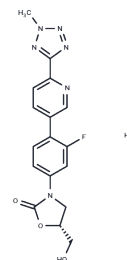
CAS No. :

Formula: C<sub>17</sub>H<sub>16</sub>ClFN<sub>6</sub>O<sub>3</sub>

Molecular Weight: 406.8

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	Tedizolid HCl is a reversible, novel oxazolidinone antibiotic (IC <sub>50</sub> : for MAO-A (monoamine oxidase-A), 8.7 uM; for MAO-B, 5.7 uM). It is the first oxazolidinone to be approved since linezolid in 2000. Tedizolid phosphate is the second commercially available oxazolidinone antibiotic and is the prodrug form of tedizolid with a fixed once-daily dose. As an expanded-spectrum oxazolidinone, it has potent activity against a wide range of Gram-positive pathogens.
Targets(IC <sub>50</sub> )	Others
In vitro	In vitro, tedizolid was a reversible inhibitor for both human MAO-A and MAO-B; for MAO-A, the value of IC <sub>50</sub> was 8.7 uM, and for MAO-B, the value of IC <sub>50</sub> was 5.7 uM. For these two inhibitions, add 46.0 and 2.1 uM of linezolid, respectively would be better [2].
In vivo	In vivo: It exhibited not only a potent activity against Gram-positive pathogens but also maintained activity against linezolid resistant bacteria. In the murine serotonergic model, the number of head twitches was analyzed after tedizolid phosphate was administrated by intraperitoneal injection [2].

### Solubility Information

Solubility	DMSO: > 13.57 mg/mL, Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4582 mL	12.2911 mL	24.5821 mL
5 mM	0.4916 mL	2.4582 mL	4.9164 mL
10 mM	0.2458 mL	1.2291 mL	2.4582 mL
50 mM	0.0492 mL	0.2458 mL	0.4916 mL

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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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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