

**DATA SHEET**

**Product Name:** Tigecycline

**Catalog #:** CV-1034

**Alt:** CAS # 220620-09-7; 9-t-Butylglycylamidominocycline; GAR-936

**Molecular Mass:** 585.7

**Analysis:** >98% (HPLC); NMR (conforms)

**Supplied As:** Orange powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to one month.

**Description:**

Clinically useful antibiotic<sup>1,2</sup>. Binds to the 30S ribosomal subunit of bacteria blocking the interaction of aminoacyl-tRNA with the ribosome. Active against Gram-positive and -negative bacteria, anaerobic and drug resistant bacteria such as MRSA, MRSE, and VRE. Has been shown to be selectively toxic to human acute myeloid leukemia cells over normal cells via inhibition of mitochondrial protein translation<sup>3</sup>. Effective against other cancers including non-small cell lung cancer<sup>4</sup>, melanoma<sup>5</sup> and lymphoma<sup>6</sup> and others.

**References:**

1. Greer, N.D., et al., (2006) Proc (Bayl Univ Med Cent), *32 Suppl 4*: S215
2. Peterson, L.R., et al., (2008) Int. J. Antimicrob. Agents, *318*: 810
3. Skrtic, M., et al., (2011) Cancer Cell, *20*: 674
4. Jia, X., et al., (2016) Fundam. Clin. Pharmacol., *30*: 297
5. Hu, H., et al., (2016) Oncotarget, *7*: 3171
6. D'Andrea, A., et al., (2016) Oncotarget, *7*: 72415

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