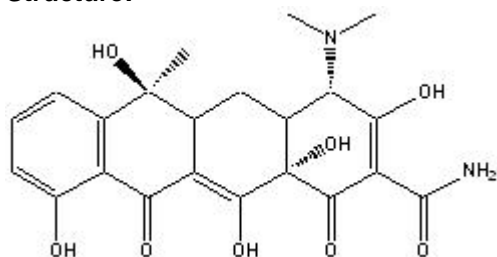


## TECHNICAL INFORMATION

Catalog Number: 103012

**Tetracycline Free base**

**Structure:**



**Molecular Formula:** C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>

**Molecular Weight:** 444.4

**CAS # :** 60-54-8

**Synonyms:** [4S-(4a, 4aa, 5aa, 6b, 12aa)]- 4-(Dimethylamino)- 1, 4, 4a, 5, 5a, 6-11, 12a- octahydro-3, 6, 10, 12, 12a-pentahydroxy- 6- methyl-1, 11-dioxo-2-naphthacene-carboxamide; deschlorobiomycin; tsiklomitsin; Abricycline; Ambramycin; Bio-Tetra; Cyclomycin; Dumocyclin; Tetradecin.

**Solubility:** Stable in neutral and in alkaline solutions. Soluble in water (1.7 mg/ml), or methanol (> 20 mg/ml - clear, yellow solution).

**Description:** Acts as an inhibitor of protein synthesis by binding to the 30S subunit and inhibiting binding of aminoacyl-tRNA. Antibiotic substance (gram-positive, gram-negative and mycoplasma) produced by *Streptomyces spp.* pKa (50% aq DMF): 8.3, 10.2.

It is typically used at a concentration of 10 ug/ml and is stable in media at 37°C for approximately 4 days.<sup>10</sup>

**Also Available:**

Catalog Number	Description	Size
103012	Tetracycline Free Base	5 g 25 g 100 g

**Availability:**

Catalog Number	Description	Size
<a href="#">103011</a>	<a href="#">Tetracycline Hydrochloride</a>	5 g 25 g 100 g
<a href="#">194542</a>	<a href="#">Tetracycline Hydrochloride cell culture reagent</a>	1 g 5 g
<a href="#">194798</a>	<a href="#">Tetracycline Hydrochloride, molecular biology reagent, gamma-irradiated</a>	10 mg 20 mg

**References:**

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