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**Product Data Sheet**

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Product Name: Monacolin J (Antibiotic MB 530A)

Cat. No.: GC31586

**Chemical Properties**

Cas. No. 79952-42-4

SMILES O=C1C[C@H](O)C[C@@H](CC[C@H]2[C@@H](C)C=CC3=C[C@H](C)C[C@H](O)[C@]23[H])O1Formula C<sub>19</sub>H<sub>28</sub>O<sub>4</sub>

M.Wt 320.42

Solubility DMSO : 100 mg/mL (312.09 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Monacolin J is an inhibitor of cholesterol biosynthesis, and inhibits the activity of HMG-CoA reductase.

Monacolin J is an inhibitor of cholesterol biosynthesis, and inhibits the activity of HMG-CoA reductase. Na salt of Monacolin J causes 50% inhibition on reductase at 1.2 µg/mL[1].

[1]. Endo A, et al. Monacolins J and L, new inhibitors of cholesterol biosynthesis produced by *Monascus ruber*. *J Antibiot (Tokyo)*. 1985 Mar;38(3):420-2.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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