

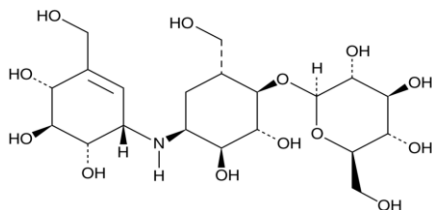
**PRODUCT: Validamycin A**

**ALTERNATE NAME:** 1,5,6-trideoxy-4-O-β-D-glucopyranosyl-5-(hydroxymethyl)-1-[[[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]-D-chiro-inositol; Validamycin; Validacin; Valimon

**CATALOG #:** B1540-100, 500

**AMOUNT:** 100 mg, 500 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>20</sub>H<sub>35</sub>NO<sub>13</sub>

**MOLECULAR WEIGHT:** 497.49

**CAS NUMBER:** 37248-47-8

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO (2 mg/ml)

**PURITY:** > 75%

**STORAGE:** Store at -20 °C. Protect from air and moisture

**DESCRIPTION:** Validamycin A is an antifungal agent used to protect rice plants against sheath blight caused by the pathogenic fungus, *R. solani*, due to its ability to inhibit trehalase, a trehalose-hydrolyzing enzyme (K<sub>i</sub> = 1.9 nM; IC<sub>50</sub> = 0.7 μM). It is also effective against the growth and sporulation of *R. cerealis*, *F. culmorum*, and other fungi. Validamycin A also demonstrates antiviral activity against fungal plant pathogens, including *Pellicularia sasakii* and *Rhizoctonia solani*, but does not appear to be fungicidal in these cases.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

- Amphotericin B (Cat. No. 2497-250, 1G, 5G)
- Ampicillin trihydrate (Cat. No. 2483-1 G, 5G, 25 G)
- Ampicillin sodium (Cat. No. 2484-1G, 5G, 25G)
- EZSolution™ Ampicillin sodium (Cat. No. 2499-10)
- Betulinic Acid (Cat. No. 1552-25)
- Bexarotene (Cat. No. 1575-5, 50)
- Blasticidin S, Hydrochloride (Cat. No. 1859-25,100)
- Capecitabine (Cat. No. 1741-100, 1000)
- Carboplatin (Cat. No. 1553-100)
- Chloramphenicol (Cat. No. 2486-25G, 100G, 500G)
- Cefotaxime Sodium, USP (Cat. No. B1510-1G, 5G, 25G)
- Cycloheximide (Cat. No. 1041-1G, 5G)
- Cycloheximide (100 mM) (Cat. No. 1041-1)
- Daunorubicin.HCl (1524-10,50,500)
- Doxorubicin HCl (Cat. No. 1527-5)
- Fludarabine Phosphate (Cat. No. 1763-10, 50)
- G-418 Sulfate (Cat. No. 1557-100, 5G, 25G)
- Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)
- Genistein (Cat. No. 1533-10)
- Nedaplatin (Cat. No. 1576-5)
- Nystatin, USP Grade (Cat. No. B1509-1G, 5G, 25G)
- Oxaliplatin (Cat. No. 1577-25)
- Penicillin G sodium (Cat. No. 2503-100, 500)
- Penicillin G potassium (Cat. No. 2504-25, 100)
- Phleomycin (Cat. No. 2724-5,25)
- EZSolution™ Phleomycin (Cat. No. B1531-1,5)
- Polymyxin B Sulfate (Cat. No. 2496-10, 50, 100)
- Puromycin Dihydrochloride (Cat. No. 1860-25, 100, 250, 500,1000)
- EZSolution™ Puromycin Dihydrochloride (Cat. No. 1861-100)
- Streptozocin (Cat. No. 1930-100, 500, 1000)
- Timentin (Cat. No. B1508-1G, 5G, 25G)
- Vancomycin Hydrochloride (Cat. No. B1507-250, 1G, 5G)

**USAGE:** FOR RESEARCH CH USE ONLY! Not to be used in humans