

Product Data Sheet

Product Name: Duramycin

Cat. No.: GD11220

Chemical Properties

Cas. No. 1391-36-2

SMILES [CKQCCAFGPF-{Abu}-FVCDGN-{Abu}-K-NH₂ (Disulfide bridge: Cys1-Abu18, Cys4-Cys14, Cys5-Abu11)]

Formula C₈₉H₁₂₅N₂₃O₂₅S₃ M.Wt 2013.28

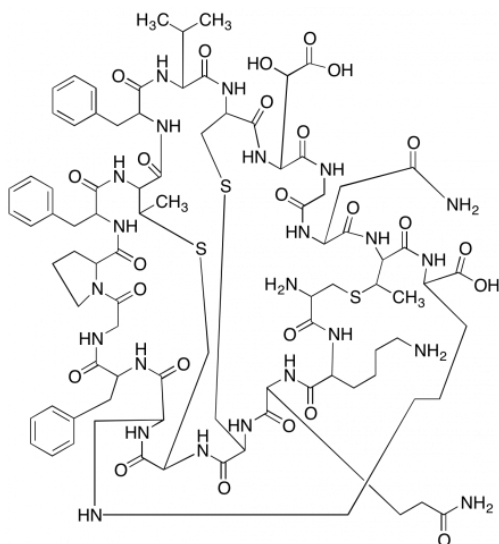
Solubility 0.1 M HCl : 10 mg/mL (4.97 mM; ultrasonic and warming and heat to 60°C); H₂O : 0.5 mg/mL (0.25 mM; Need ultrasonic)

Storage -20°C argon filling

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

Duramycin (Moli1901) is a lantibiotic derived from *Streptomyces cinnamoneuma*. Duramycin also is an antimicrobial peptide. Duramycin can be used for the research of cystic fibrosis (CF).

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

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Evaluation of [^{68}Ga]NODAGA-Duramycin as a positron emission tomography (PET) tracer of cell death for whole-body detection of chemotherapy-induced organ toxicity. Organ uptake is analyzed in untreated and doxorubicin, busulfan, and cisplatin-treated mice 2 h after intravenous injection of [^{68}Ga]NODAGA-Duramycin. [^{68}Ga]NODAGA-Duramycin PET/CT is successfully applied to non-invasively detect chemotherapy-induced organ toxicity with high sensitivity in mice^[3].

[1]. Oliynyk I, et al. Effect of duramycin on chloride transport and intracellular calcium concentration in cystic fibrosis and non-cystic fibrosis epithelia. APMIS. 2010 Dec;118(12):982-90.

[2]. Huo L, et al. Insights into the Biosynthesis of Duramycin. Appl Environ Microbiol. 2017 Jan 17;83(3). pii: e02698-16.

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