

Product Data Sheet

Product Name: Belapectin

Cat. No.: GC72851

Chemical Properties

Cas. No. 1980787-47-0

Formula

M.Wt

Solubility

Storage -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

Belapectin

Background

Belapectin (GR-MD-02) is a Galectin-3 (Gal-3) inhibitor. Belapectin drives tumor-induced immunosuppression by inducing T cell Apoptosis. Belapectin promotes tumor regression and improves survival of tumor-bearing mice through a CD8+ T cell-dependent mechanism. Belapectin binds to Gal-3 with affinity K_i of 2.8 μ M.

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

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Belapectin (0.2 mg/mL, 2 mg/mL; 48 h) inhibits the proliferation of 4T1 and MCA-205 cells and induced apoptosis[1].

Belapectin (2.4 mg/mouse; i.p.; 3 times per week for 3 weeks) only exerts function under the combination with anti-OX40 mAb, does cause a significant reduction in tumor growth and a corresponding increase in survival. The combined treatment also produces lasting long-term memory, and 100 percent of the tumor-free mice were protected from subsequent tumor reattacks[1].

References:

- [1]. Sturgill ER, et al. Galectin-3 inhibition with belapectin combined with anti-OX40 therapy reprograms the tumor microenvironment to favor anti-tumor immunity. *Oncoimmunology*. 2021 Mar 1;10(1):1892265.
- [2]. Capasso D, et al. Galectins detection for the diagnosis of chronic diseases: An emerging biosensor approach[J]. *TrAC Trends in Analytical Chemistry*, 2023: 116952.

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