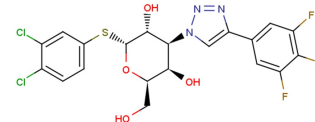


GB1107

## Chemical Properties

CAS No.: 1978336-61-6  
Formula: C<sub>20</sub>H<sub>16</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub>S  
Molecular Weight: 522.32  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | GB1107 is a selective, orally active Galectin-3 (Gal-3) inhibitor (K <sub>d</sub> : 37 nM for human Galectin-3). GB1107 decreases human and mouse lung adenocarcinoma growth and blocks metastasis in the syngeneic model.   |
| Targets(IC <sub>50</sub> ) | human Gal-3: (K <sub>d</sub> ) 37 nM   |
| In vitro                   | GB1107 potentiates the effects of a PD-L1 immune checkpoint inhibitor to enhance the expression of cytotoxic (IFN- $\gamma$ , granzyme B, perforin-1, Fas ligand) and apoptotic (cleaved caspase-3) effector molecules. GB1107 (0-1 $\mu$ M) treatment, enhances tumor M1 macrophage polarization and CD8+ T cell infiltration in LLC cells by flow cytometric analysis. |
| In vivo                    | GB1107 (10 mg/kg, p.o., once daily from day 18-30 post-implantation) treatment causes obviously decreased tumor growth and final tumor weights.  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 50 mg/mL (95.73 mM)<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

### Preparing Stock Solutions

|       | 1mg      | 5mg      | 10mg      |
|-------|----------|----------|-----------|
| 1 mM  | 1.915 mL | 9.573 mL | 19.145 mL |
| 5 mM  | 0.383 mL | 1.915 mL | 3.829 mL  |
| 10 mM | 0.191 mL | 0.957 mL | 1.915 mL  |
| 50 mM | 0.038 mL | 0.191 mL | 0.383 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Vuong L, et al. An orally active galectin-3 antagonist inhibits lung adenocarcinoma growth and augments response to PD-L1 blockade. Cancer Res. 2019 Jan 23. pii: canres.2244.2018.

Inhibitors · Natural Compounds · Compound Libraries

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