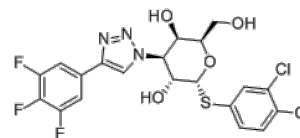


Product Name : GB1107
Cat. No. : PC-36033
CAS No. : 1978336-61-6
Molecular Formula : C₂₀H₁₆Cl₂F₃N₃O₄S
Molecular Weight : 522.32
Target : Galectin
Solubility : 100 mM in DMSO (52.2 mg/mL)



Biological Activity

GB1107 (GB-1107, GB 1107) is a potent, selective, orally active inhibitor of **Galectin-3 (Gal-3)** with K_d of 37 nM (human Galectin-3).

GB1107 displays >100-fold lower affinity for most of the tested human galectins, and 20 and 4-fold lower affinity for galectin-2 and the C-terminal CRD of galectin-4, respectively.

GB1107 prevents human lung adenocarcinoma growth in vivo, increases tumor M1 macrophage polarization and CD8⁺ T cell infiltration.

GB1107 also can potentiate the effects of a PD-L1 immune checkpoint inhibitor to increase expression of cytotoxic (IFN- γ , granzyme B, perforin-1, Fas ligand) and apoptotic (cleaved caspase-3) effector molecules.

References

Vuong L, et al. **Cancer Res.** 2019 Jan, doi: 10.1158/0008-5472.CAN-18-2244.

Zetterberg FR, et al. **ChemMedChem.** 2018 Jan 22;13(2):133-137.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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