

Product Data Sheet

Product Name: ADH-503

Cat. No.: GC60040

Chemical Properties

Cas. No. 2055362-74-6

SMILES O=C([O-])C1=CC=C(C2=CC=C(/C=C(SC(N3CC4=CC=CC=C4)=S)/C3=O)O2)C=C1.OCC[N+](C)(C)C.[Z]

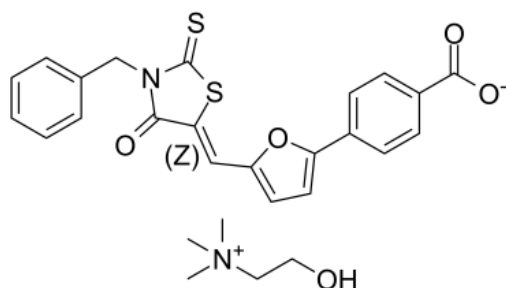
Formula $C_{27}H_{28}N_2O_5S_2$ M.Wt 524.65

Solubility DMSO: 21.43 mg/mL (40.85 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

ADH-503 ((Z)-Leukadherin-1 choline) is an orally active and allosteric CD11b agonist. ADH-503 leads to the repolarization of tumor-associated macrophages, reduction in the number of tumor-infiltrating immunosuppressive myeloid cells, and enhances dendritic cell responses[1].

ADH-503 ((Z)-Leukadherin-1 choline; 4 μM; 8 days) reduces the numbers of total tumor-infiltrating

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CD11b+ cells and subsets of CD11b+ monocytes, granulocytes, eosinophils, and macrophages[1].

ADH-503 ((Z)-Leukadherin-1 choline; oral gavage; 30, 60, or 120 mg/kg; twice a day for 60 days) delays tumor progression, leading to a significantly decreased tumor burden in time-point analysis and improved overall survival[1]. ADH-503 (oral gavage; 30, 100 mg/kg; twice a day; on days 1 and 5) has the mean half-life of 4.68 and 3.95 hours, a maximum concentration of 1716 and 2594 ng/mL and AUC_{0-t} in the plasma of 6950 and 13962 ng.h/mL at 30 and 100 mg/kg dosing, respectively[1]. Animal Model: KPC mice [p48-CRE/Lox-stop-Lox(LSL)-KrasG12D/p53flox/flox][1]

[1]. Panni RZ, et al. Agonism of CD11b reprograms innate immunity to sensitize pancreatic cancer to immunotherapies. Sci Transl Med. 2019 Jul 3;11(499).

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