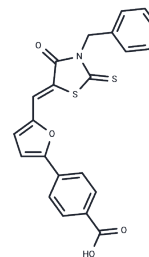


(Z)-Leukadherin-1

Chemical Properties

CAS No. :	2055362-72-4
Formula:	C ₂₂ H ₁₅ NO ₄ S ₂
Molecular Weight:	421.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(Z)-Leukadherin-1 (ADH-503 free base) is an allosteric agonist of CD11b.
Targets(IC50)	Complement System
In vitro	(Z)-Leukadherin-1 (4 μM) treatment reduces the numbers of total tumor-infiltrating CD11b+ cells and subsets of CD11b+ monocytes, eosinophils, granulocytes, and macrophages. (Z)-Leukadherin-1 leads to the repolarization of tumor-associated macrophages, reduction in the number of tumor-infiltrating immunosuppressive myeloid cells, and enhances dendritic cell responses[1].
In vivo	(Z)-Leukadherin-1 shows a mean half-life of 4.68 and 3.95 h, 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. In KPC mice, (Z)-Leukadherin-1 (30, 60, or 120 mg/kg; gavage) delays tumor progression and leads to a significantly decreased tumor burden in time-point analysis and improved overall survival[1].

Solubility Information

Solubility	DMSO: 4 mg/mL (9.49 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3725 mL	11.8627 mL	23.7254 mL
5 mM	0.4745 mL	2.3725 mL	4.7451 mL
10 mM	0.2373 mL	1.1863 mL	2.3725 mL
50 mM	0.0475 mL	0.2373 mL	0.4745 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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