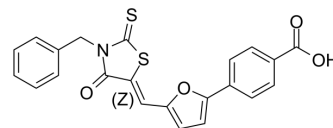


(Z)-Leukadherin-1

Cat. No.:	HY-15701A		
CAS No.:	2055362-72-4		
Molecular Formula:	C ₂₂ H ₁₅ NO ₄ S ₂		
Molecular Weight:	421.49		
Target:	Complement System		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.55 mg/mL (10.80 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(Z)-Leukadherin-1 (ADH-503 free base) is an orally active and allosteric CD11b agonist. (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].

IC₅₀ & Target

CD11b^[1]

In Vitro

(Z)-Leukadherin-1 (ADH-503 free base; 4 μM; 8 days) reduces the numbers of total tumor-infiltrating CD11b⁺ cells and subsets of CD11b⁺ monocytes, granulocytes, eosinophils, and macrophages^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(Z)-Leukadherin-1 (ADH-503 free base; 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].

(Z)-Leukadherin-1 (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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	KPC mice [p48-CRE/Lox-stop-Lox(LSL)-Kras ^{G12D} /p53 ^{flor/flor}] ^[1]
Dosage:	30, 60, or 120 mg/kg
Administration:	Oral gavage; 60 days
Result:	Delayed tumor progression, leading to a significantly decreased tumor burden in time-point analysis and improved overall survival.
Animal Model:	Male rats ^[1]
Dosage:	30, 100 mg/kg (Pharmacokinetic Analysis)
Administration:	Oral gavage twice a day; on days 1 and 5
Result:	Had 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.

REFERENCES

[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).

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

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