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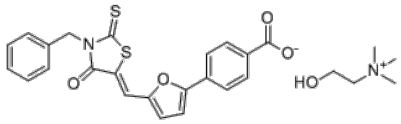
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ADH-503
Cat. No.	:	PC-72987
CAS No.	:	2055362-72-4
Molecular Formula	:	$C_{27}H_{28}N_2O_5S_2$
Molecular Weight	:	524.65
Target	:	Integrin
Solubility	:	10 mM in DMSO



Biological Activity

ADH-503 (GB1275, Leukadherin-1 choline) is a small-molecule allosteric agonist of **CD11b** that can render tumors more sensitive to checkpoint blockade.
ADH-503 rapidly decreased the genes involved in IL-1 signaling, increased the expression of cytokines involved in T cell and DC trafficking.
ADH-503 reduced the regulatory T cell (Treg) recruitment of cytokines CCL17 and CCL22 in PDAC-activated macrophages, down-regulated TGF-β1, IL-1α, and IL-1β and reduced alternative activation markers arginase-1 (Arg1), YM1, and Retnlα while upregulating type I interferons (IFNα1 and IFNβ) and T cell recruitment factors (CXCL9, CXCL10, and CXCL11).
ADH-503 reduced the numbers of total tumor-infiltrating CD11b+cells and subsets of CD11b+ monocytes, granulocytes, eosinophils, and macrophages on myeloid cells, improves T cell responses in vivo, induces the accumulation of CD103+ cDCs in the tumor.
ADH-503 impairs tumor growth and improves survival in orthotopic models and KPC GEMMs, also improves the efficacy of chemotherapy.

References

Panni RZ, et al. ***Sci Transl Med.*** 2019 Jul 3;11(499). pii: eaau9240. doi: 10.1126/scitranslmed.aau9240.
2. Geraghty T, et al. ***Front Oncol.*** 2020 May 21;10:748.

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