

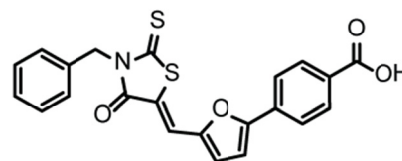


Product Specification Sheet

Product Name: Leukadherin-1 (LA1)
Catalog Number: C5385-2 (powder)
C5385-2s (10mM in DMSO)
Package Size: 2 mg

Technical information:

Chemical Formula: C₂₂H₁₅NO₄S₂
CAS #: 344897-95-6
Molecular Weight: 421.49
Purity: >98%
Formulation: White solid
Solubility: Soluble in DMSO up to 50 mM
Chemical Name: (Z)-4-(5-((3-benzyl-4-oxo-2-thioxothiazolidin-5-ylidene)methyl)furan-2-yl)benzoic acid
Storage: Store solid powder at 4°C desiccated;
Store DMSO solution at -20°C.



Leukadherin-1 (LA1)

- Handling:**
- For C5385-2 (powder), add 474 μL of DMSO to make 10 mM solution.
 - For C5385-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full sample recovery.

Biological Activity: Leukadherin-1 (LA1), a novel small molecule agonists of integrin CD11b/CD18, can increase the extent of CD11b/CD18-dependent cell adhesion of transfected cells and of primary human and mouse neutrophils (EC₅₀ =4μM in vitro), which resulted in decreased chemotaxis and transendothelial migration. LA1 can also decrease leukocyte recruitment and reduced arterial narrowing after injury in rats. Moreover, compared to a known integrin antagonist, LA1 preserved kidney function better in a mouse model of experimental nephritis. It inhibited leukocyte recruitment by increasing leukocyte adhesion to the inflamed endothelium, which was reversed with a blocking antibody.

- Reference:**
1. Dony Manguel, et al. Small Molecule–Mediated Activation of the Integrin CD11b/CD18 Reduces Inflammatory Disease. *Sci. Signal.*, Vol. 4, Issue 189, p. ra57
 2. Faridi MH et al. Identification of novel agonists of the integrin CD11b/CD18. *Bioorg Med Chem Lett.* 2009; 19(24):6902-6.

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