

Leukadherin-1

ALTERNATE NAME: 4-(5-((3-Benzyl-4-oxo-2-thioxo-1,3-thiazolidin-5-ylidene)methyl)furan-2-yl)-benzoic acid; LA1

CATALOG #: 2059-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₁₅NO₄S₂

MOLECULAR WEIGHT: 421.49

CAS NUMBER: 344897-95-6

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO (10 mM)

PURITY: ≥97% by HPLC

STORAGE: Store at -20 °C. Protect from air and light.

DESCRIPTION: A novel small molecule agonist of integrin CD11b/CD18 (also known as Mac-1). LA1 increases the extent of CD11b/CD18-dependent cell adhesion of transfected cells and of primary human and mouse neutrophils, which results in decreased chemotaxis and transendothelial migration. LA1 also decreases leukocyte recruitment and reduced arterial narrowing after injury in rats. In addition, compared to a known integrin antagonist IMB-10, LA1 better preserves kidney function in a mouse model of experimental nephritis.

REFERENCES: Maiguel, D., *et al.* (2011). *Sci. Signal* **4**, ra57; Bodron, Y. (2011). *Nat. Rev. Immunol.* **11**, 638. doi: 10.1038/nri3079

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- ICAM-1 Antibody (**Cat. No. 3422R-100**)
- ICAM-2 Antibody (**Cat. No. 3926-100**)
- Integrin Ligand Peptide (**Cat. No. 1824-5, 25**)

FOR RESEARCH USE ONLY! Not to be used in humans.