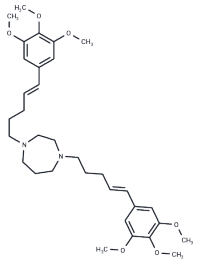
# Data Sheet (Cat.No.T11742)

TargetMol

K-7174

## Chemical Properties



CAS No. : 191089-59-5

Formula: C33H48N2O6

Molecular Weight: 568.74

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

## Biological Description

| | |
|---|---|
| Description | K-7174 is a novel cell adhesion inhibitor; inhibits the expression of vascular cell adhesion molecule-1 (VCAM-1) induced by either IL-1β or TNF-α. |
| Targets(IC50) | Apoptosis,Proteasome,IL Receptor,TNF |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: < 5.69 mg/mL (10 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.7583 mL | 8.7914 mL | 17.5827 mL |
| 5 mM | 0.3517 mL | 1.7583 mL | 3.5165 mL |
| 10 mM | 0.1758 mL | 0.8791 mL | 1.7583 mL |
| 50 mM | 0.0352 mL | 0.1758 mL | 0.3517 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Umetani M, et al. A novel cell adhesion inhibitor, K-7174, reduces the endothelial VCAM-1 induction by inflammatory cytokines, acting through the regulation of GATA. Biochem Biophys Res Commun. 2000 Jun 7;272(2):370-4.

Imagawa S, et al. A GATA-specific inhibitor (K-7174) rescues anemia induced by IL-1beta, TNF-alpha, or L-NMMA. FASEB J. 2003 Sep;17(12):1742-4.

Shimada T, et al. Unexpected blockade of adipocyte differentiation by K-7174: implication for endoplasmic reticulum stress. Biochem Biophys Res Commun. 2007 Nov 16;363(2):355-60.

Kikuchi J, et al. The novel orally active proteasome inhibitor K-7174 exerts anti-myeloma activity in vitro and in vivo by down-regulating the expression of class I histone deacetylases. J Biol Chem. 2013 Aug 30;288(35):25593-602.



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