

Product Data Sheet

Product Name: THI0019
Cat. No.: GC61332

Chemical Properties

Cas. No. 1378532-99-0

SMILES O=C(N[C@@H](CCCC)COC(N(CC1=CC=CS1)CC2=CC=CS2)=O)N[C@H](C3=CC=C4C(OCO4)=C3)CC(OC)=O

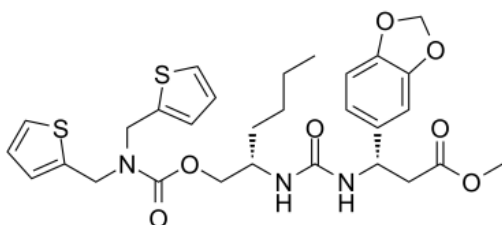
Formula $C_{29}H_{35}N_3O_7S_2$ M.Wt 601.73

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

THI0019 is a potent integrin $\alpha 4 \beta 1$ (VLA-4) agonist with an EC₅₀ range of 1-2 μ M. THI0019 induces stem/progenitor cells adhesion. THI0019 also regulates adhesion mediated by $\alpha 4 \beta 7$, $\alpha 5 \beta 1$ and $\alpha L \beta 2$ [1].

In cell adhesion assays in which Jurkat cells bound to CS1-conjugated BSA, THI0019 shows a dose-dependent enhancement in cell binding with an EC₅₀ of 1.7 μ M. When VCAM-1 is used as the

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ligand, THI0019 induces an even more pronounced 100-fold increase in Jurkat cell binding, with an EC₅₀ of 1.2 μ M. THI0019 induces a dose-dependent increase in EPC binding to VCAM-1 (EC₅₀ of 3.7 μ M). THI0019 facilitates the rolling and spreading of cells on VCAM-1 and the migration of cells toward SDF-1 α [1].

[1]. Peter Vanderslice, et al. Small molecule agonist of very late antigen-4 (VLA-4) integrin induces progenitor cell adhesion. J Biol Chem. 2013 Jul 5;288(27):19414-28.

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