

Product Data Sheet

Product Name: TLR1
Cat. No.: GC38508

Chemical Properties

Cas. No. 566914-00-9

SMILES O=C(N[C@H](C(N1CCCC1)=O)C(C)C)CCC2=CC=CC=C2

Formula $C_{18}H_{26}N_2O_2$ M.Wt 302.41

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 0.5 mg/ml
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 sizes: ship with RT, or blue ice upon request.

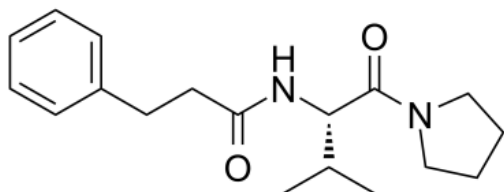
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

TLR1 (compound 4a) is a low molecular weight, cell-penetrating Toll/IL-1 receptor/resistance (TIR) domain/BB-Loop mimic. TLR1 inhibits IL-1 receptor-mediated responses[1].

TLR1 inhibits IL-1 β -induced phosphorylation of the mitogen-activated protein kinase p38 in EL4 thymoma cells and in freshly isolated murine lymphocytes in a concentration-dependent manner[1].

TLR1 interferes with the interactions between mouse MyD88 and IL-1RI at the TIR domains. TLR1 produces a significant attenuation of the IL-1 β -induced fever response (200 mg/kg, i.p.)[1].

[1]. Bartfai T, et al. A low molecular weight mimic of the Toll/IL-1 receptor/resistance domain inhibits IL-1 receptor-mediated responses. Proc Natl Acad Sci U S A. 2003 Jun 24;100(13):7971-6.

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