

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION



IL-1R Antagonist

Item No. 21349

CAS Registry No.: 566914-00-9

Formal Name: N-[(1S)-2-methyl-1-(1-

pyrrolidinylcarbonyl)propyl]-

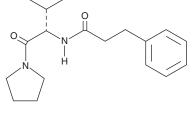
benzenepropanamide

MF: $C_{18}H_{26}N_2O_2$ FW: 302.4 **Purity:** ≥98%

Supplied as: A solution in ethanol

Storage: -20°C Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

IL-1R antagonist is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of IL-1R antagonist in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of IL-1R antagonist is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of IL-1R antagonist in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

IL-1R antagonist is a peptide mimic of the myeloid differentiation primary response gene 88 (MyD88) that changes the interaction of MyD88 and IL-1 receptor type I (IL-1RI). In mouse lymphocytes and thymoma EL4 cells, IL-1R antagonist (≥10 μM) inhibits IL-1β-activated phosphorylation of p38 MAP kinase, a process specifically mediated by disruption of IL-1RI/MyD88. However, it has no influence on LPS-mediated TLR4/ MyD88 signaling in freshly isolated mouse lymphocytes (100 μM). IL-1R antagonist also attenuates IL-1βinduced fever (200 mg/kg) and Staphylococcal enterotoxin B (SEB)-induced pro-inflammatory cytokine production and toxicity in mice at doses between 2-6 mg.^{1,2}

References

- 1. Bartfai, T., Behrens, M.M., Gaidarova, S., 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. USA 100(13), 7971-7976 (2003).
- 2. Kissner, T.L., Moisan, L., Mann, E., et al. A small molecule that mimics the BB-loop in the Toll interleukin-1 (IL-1) receptor domain of MyD88 attenuates staphylococcal enterotoxin B-induced pro-inflammatory cytokine production and toxicity in mice. J. Biol. Chem. 286(36), 31385-31396 (2011).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

al should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 11/21/2017

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM