

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



Icilin

Item No. 10137

CAS Registry No.: Formal Name:	36945-98-9 3,6-dihydro-1-(2-hydroxyphenyl)- 4-(3-nitrophenyl)-2(1H)- pyrimidinone	
Synonym: MF: FW: Purity: Stability: Supplied as:	AG 3-5 $C_{16}H_{13}N_{3}O_{4}$ 311.3 ≥98% ≥2 years at -20°C A crystalline solid	NO ₂

Laboratory Procedures

For long term storage, we suggest that icilin be stored as supplied at -20°C. It should be stable for at least two vears.

Icilin is supplied as a crystalline solid. A stock solution may be made by dissolving the icilin in an organic solvent purged with an inert gas. Icilin is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of icilin in these solvents is approximately 25 mg/ml.

Icilin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, icilin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Icilin has a solubility of approximately 0.1 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. Therefore, further dilutions of the organic solvent 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. We do not recommend storing the aqueous solution for more than one day.

Description

Nociceptive sensory peripheral neurons often express both heat sensitive (VR1) and cold-sensitive (CMR1 (rat); TRPM8 (human)) receptors that are part of the transient receptor potential (TRP) superfamily. Icilin (AG 3-5) is a synthetic CMR1/TRPM8 super agonist that is 2.5-fold more efficacious and nearly 200-fold more potent than the reference cold thermosensory agonist *I*-menthol.¹ Icilin induces sensations of intense cold when applied orally in humans, and induces 'wet dog shakes', a behavioral marker of cold sensation, when given to rats. Icilin should serve as the reference cold nociceptive agonist for TRP-type ion channels in the future.²

References

- 1. McKemy, D.D., Neuhausser, W.M., and Julius, D. Identification of a cold receptor reveals a general role for TRP channels in thermosensation. Nature 416, 52-58 (2002).
- 2. Wei, E.T. and Seid, D.A. AG-3-5: a chemical producing sensations of cold. J. Pharm. Pharmacol. 35, 110-112 (1983).

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

SAFFTY DATA

This material 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.

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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