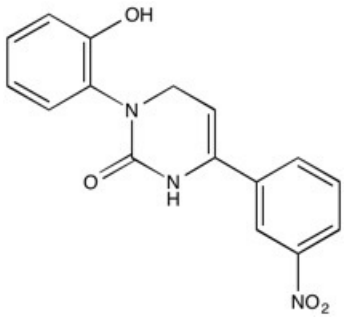
Tribioscience

Icilin, TRPM8 channel activator

Catalog	Unit
TBI4380-10MG	10 mg
TBI4380-50MG	50 mg

Product Details



Formal Name: 3,6-Dihydro-1-(2-hydroxyphenyl)-4-(3-nitrophenyl)-1H-pyrimidin-2-one
Alternate Names: AG 3-5
Molecular Formula: $C_{16}H_{13}N_3O_4$
Formula Weight: 311.29
CAS Number: 36945-98-9
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 25 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.

Applications

TRPM8 channel activator

Functions

Icilin is an agonist of cold-sensitive TRP channels with 2.5-fold greater efficacy and 200-fold greater potency than menthol (EC50 = 0.36 µM for CRM1, rat orthologue of TRPM8). Agonist at TRPM8 (EC50 = 0.2 µM) and ANKTM1(TRPA1). Agonist effects require Ca2+ and are pH dependent. Icilin induced G1 arrest in PC-3 prostate cancer cells without cell death.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.

Tribioscience, Inc. | 365 San Aleso Ave, Sunnyvale, CA 94085 | Phone: 408-498-0197
info@tribioscience.com Fax: 650-618-5498 www.tribioscience.com