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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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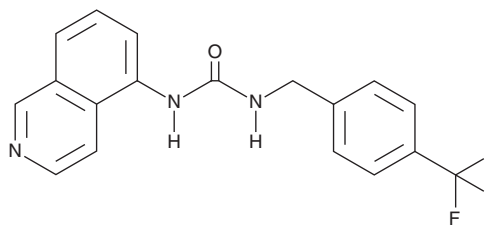
PRODUCT INFORMATION



A-425619

Item No. 42117

CAS Registry No.: 581809-67-8
Formal Name: N-5-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]-urea
MF: C₁₈H₁₄F₃N₃O
FW: 345.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

A-425619 is supplied as a solid. A stock solution may be made by dissolving the A-425619 in the solvent of choice, which should be purged with an inert gas. A-425619 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

A-425619 is an antagonist of transient receptor potential vanilloid 1 (TRPV1).¹ It is selective for TRPV1 over a panel of 83 receptors, enzymes, transporters, and ion channels at 10 μM. A-425619 inhibits increases in intracellular calcium induced by capsaicin (Item No. 92350), N-arachidonoyl dopamine (NADA; Item No. 90057), anandamide (arachidonoyl ethanolamide; Item No. 90050), or acid in HEK293 cells expressing human TRPV1 (IC₅₀s = 5, 4, 3, and 2 nM, respectively). It increases core body temperature in rats when administered at a dose of 30 mg/kg.² A-425619 increases the paw withdrawal threshold in several rodent models of inflammatory, neuropathic, osteoarthritic, and postoperative pain in a dose-dependent manner.³

References

1. El Kouhen, R., Surowy, C.S., Bianchi, B.R., *et al.* A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethyl-benzyl)-urea], a novel and selective transient receptor potential type V1 receptor antagonist, blocks channel activation by vanilloids, heat, and acid. *J. Pharmacol. Exp. Ther.* **314(1)**, 400-409 (2005).
2. Gavva, N.R., Bannon, A.W., Surapaneni, S., *et al.* The vanilloid receptor TRPV1 is tonically activated *in vivo* and involved in body temperature regulation. *J. Neurosci.* **27(13)**, 3366-3374 (2007).
3. Honore, P., Wismer, C.T., Mikusa, J., *et al.* A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethyl-benzyl)-urea], a novel transient receptor potential type V1 receptor antagonist, relieves pathophysiological pain associated with inflammation and tissue injury in rats. *J. Pharmacol. Exp. Ther.* **314(1)**, 410-421 (2005).

WARNING

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

SAFETY 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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