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Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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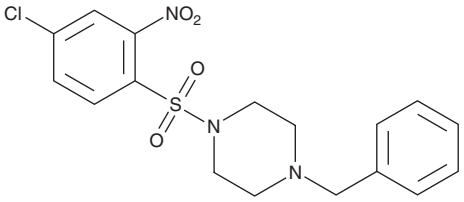
PRODUCT INFORMATION

RN-1747

Item No. 37573

CAS Registry No.:	1024448-59-6
Formal Name:	1-[(4-chloro-2-nitrophenyl) sulfonyl]-4-(phenylmethyl)-piperazine
MF:	$C_{17}H_{18}ClN_3O_4S$
FW:	395.9
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

RN-1747 is supplied as a solid. A stock solution may be made by dissolving the RN-1747 in the solvent of choice, which should be purged with an inert gas. RN-1747 is soluble in methanol and DMSO.

Description

RN-1747 is an agonist of transient receptor potential vanilloid 4 (TRPV4).[1] It selectively induces calcium influx in HEK293 cells expressing human, rat, or mouse TRPV4 (EC_{50}s = 0.77, 4.1, and 4 µM, respectively) over HEK293 cells expressing human TRPV1, TRPV3, or transient receptor potential melastatin 8 (TRPM8; EC_{50}s = >100, >30, and >30 µM, respectively). RN-1747 (10 µM) induces inward current in *Xenopus* oocytes expressing human TRPV4. Topical, but not intravenous, administration of RN-1747 induces hypothermia in rats.[2]

References

1. Vincent, F., Acevedo, A., Nguyen, M.T., *et al.* Identification and characterization of novel TRPV4 modulators. *Biochem. Biophys. Res. Commun.* **389(3)**, 490-494 (2009).
2. Vizin, R.C., Scarpellini, C.S., Ishikawa, D.T., *et al.* TRPV4 activates autonomic and behavioural warmth-defence responses in Wistar rats. *Acta Physiol. (Oxf.)* **214(2)**, 275-289 (2015).

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