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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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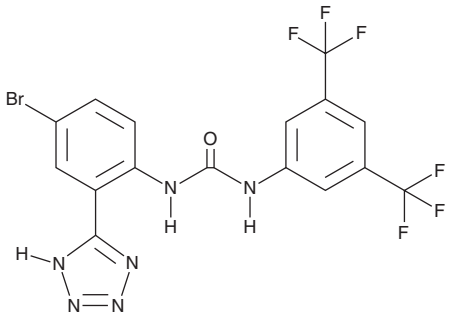
PRODUCT INFORMATION

NS 3728

Item No. 39988

CAS Registry No.:	265646-85-3
Formal Name:	N-[3,5-*bis*(trifluoromethyl)phenyl]-N′-[4-bromo-2-(2H-tetrazol-5-yl) phenyl]-urea
Synonyms:	Endovion, SCO 101
MF:	$C_{16}H_9BrF_6N_6O$
FW:	495.2
Purity:	≥95%
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

NS 3728 is supplied as a solid. A stock solution may be made by dissolving the NS 3728 in the solvent of choice, which should be purged with an inert gas. NS 3728 is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

NS 3728 is a chloride channel inhibitor.[1,2] It inhibits the volume-regulated anion channel (VRAC) in HEK293 cells and chloride conductance in washed isolated human erythrocytes (IC_{50}s = 0.4 and 0.6 µM, respectively).[1] NS 3728 also inhibits calcium-activated chloride currents in Ehrlich-Lettre ascites carcinoma cells (IC_{50}s = 2.11 and 0.7 µM at +95 and -50 mV, respectively).[2] It reduces the proliferation of Ehrlich-Lettre ascites cells and inhibits IFN-γ-induced nitric oxide (NO) production in BV-2 microglia (IC_{50}s = 0.52 and 3.7 µM, respectively).[2,3]

References

1. Hélix, D., Strøbaek, B.H.D., and Christophersen, P. Inhibition of the endogenous volume-regulated anion channel (VRAC) in HEK293 cells by acidic di-aryl-ureas. *J. Membr. Biol.* **196(2)**, 83-94 (2003).
2. Klausen, T.K., Bergdahl, A., Hougaard, C., *et al.* Cell cycle-dependent activity of the volume- and Ca^{2+}-activated anion currents in Ehrlich Lettre ascites cells. *J. Cell. Physiol.* **210(3)**, 831-842 (2007).
3. Kjaer, K., Strøbaek, D., Christophersen, P., *et al.* Chloride channel blockers inhibit iNOS expression and NO production in IFNγ-stimulated microglial BV2 cells. *Brain Res.* **1281**, 15-24 (2009).

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