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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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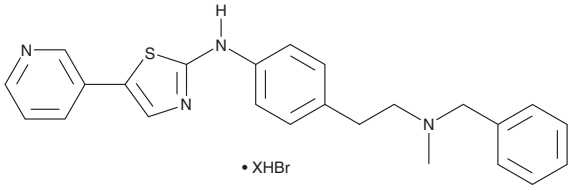
PRODUCT INFORMATION

GSK205 (hydrobromide)

Item No. 40923

Formal Name:	N-[4-[2-[methyl(phenylmethyl)amino]ethyl] phenyl]-5-(3-pyridinyl)-2-thiazolamine, hydrobromide
MF:	$C_{24}H_{24}N_4S$ • XHBr
FW:	400.5
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

GSK205 (hydrobromide) is supplied as a solid. A stock solution may be made by dissolving the GSK205 (hydrobromide) in the solvent of choice, which should be purged with an inert gas. GSK205 (hydrobromide) is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

GSK205 is an inhibitor of transient receptor potential vanilloid 4 (TRPV4) and transient receptor potential ankyrin 1 (TRPA1; IC_{50}s = 4.19 and 5.56 µM, respectively, for the rat channels).[1] It inhibits calcium influx induced by the TRPV4 agonist GSK101 (GSK1016790A; Item No. 17289) in whole-cell patch-clamp assays using Neuro2a neuroblastoma cells expressing TRPV4 when used at a concentration of 5 µM. GSK205 (10 µM) prevents compression-induced increases in NF-κB transcriptional activity and secreted levels of IL-6 and VEGFA, as well as inhibits compression-induced fractures, abnormal cell morphology, and fissures in the intervertebral space, in primary mouse lumbar spines when used at a concentration of 10 µM.[2]

References

1. Kanju, P., Chen, Y., Lee, W., *et al.* Small molecule dual-inhibitors of TRPV4 and TRPA1 for attenuation of inflammation and pain. *Sci. Rep.* **6**, 26894 (2016).
2. Easson, G.W.D., Savadipour, A., Anandarajah, A., *et al.* Modulation of TRPV4 protects against degeneration induced by sustained loading and promotes matrix synthesis in the intervertebral disc. *FASEB J.* **37(2)**, e22714 (2023).

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