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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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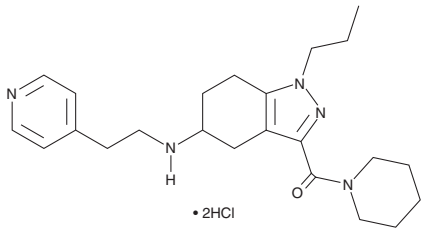
PRODUCT INFORMATION

NUCC-390 (hydrochloride)

Item No. 30957

Formal Name:	1-piperidinyl[4,5,6,7-tetrahydro-1-propyl-5-[[2-(4-pyridinyl)ethyl]amino]-1H-indazol-3-yl]-methanone, dihydrochloride
MF:	$C_{23}H_{33}N_5O \bullet 2HCl$
FW:	468.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

NUCC-390 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the NUCC-390 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. NUCC-390 (hydrochloride) is soluble in DMSO.

Description

NUCC-390 is a chemokine (C-X-C motif) receptor 4 (CXCR4) agonist.[1] It induces calcium mobilization in C8161 melanoma cells expressing CXCR4 when used at a concentration of 10 µM, an effect that can be prevented by the CXCR4 antagonist AMD3100 (plerixafor; Item No. 10011332). NUCC-390 (0.0625, 0.125, and 0.25 µM) increases axon length in cultured rat spinal cord motor neurons.[2] *In vivo*, NUCC-390 (26 mg/kg per day) restores gastrocnemius muscle compound muscle action potentials (CMAPs) in a mouse model of sciatic nerve crush injury. It also restores CMAPs in a mouse model of neuroparalysis induced by Papuan taipan (*O. scutellatus*) venom.[3]

References

1. Mishra, R.K., Shum, A.K., Platanias, L.C., *et al.* Discovery and characterization of novel small-molecule CXCR4 receptor agonists and antagonists. *Sci. Rep.* **6:30155**, 1-9 (2016).
2. Zanetti, G., Negro, S., Megighian, A., *et al.* A CXCR4 receptor agonist strongly stimulates axonal regeneration after damage. *Ann. Clin. Transl. Neurol.* **6(12)**, 2395-2402 (2019).
3. Stazi, M., D'Este, G., Mattarei, A., *et al.* An agonist of the CXCR4 receptor accelerates the recovery from the peripheral neuroparalysis induced by Taipan snake envenomation. *PLoS Negl. Trop. Dis.* **14(9)**, e0008547 (2020).

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