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Produktinformation

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- 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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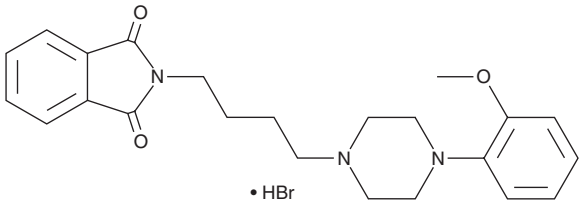
PRODUCT INFORMATION

NAN-190

Item No. 29314

CAS Registry No.:	115338-32-4
Formal Name:	2-[4-[4-(2-methoxyphenyl)-1-piperazinyl]butyl]-1H-isoindole-1,3(2H)-dione, monohydrobromide
MF:	$C_{23}H_{27}N_3O_3$ • HBr
FW:	474.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 214, 219, 233, 241 nm
Supplied as:	A crystalline 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

NAN-190 is supplied as a crystalline solid. A stock solution may be made by dissolving the NAN-190 in the solvent of choice, which should be purged with an inert gas. NAN-190 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NAN-190 in these solvents is approximately 1, 10, and 5 mg/ml, respectively.

NAN-190 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NAN-190 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. NAN-190 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

NAN-190 is a mixed antagonist and partial agonist of the serotonin (5-HT) receptor subtype 5-HT_{1A}.[1] It inhibits radioligand binding to 5-HT_{1A} sites in rat hippocampal membranes (K_i = 2 nM). NAN-190 decreases 5-carboxamidotryptamine-mediated inhibition of forskolin-induced adenylyl cyclase activity in guinea pig hippocampal membranes in a concentration-dependent manner, indicating partial agonist activity. NAN-190 also antagonizes α_1-adrenergic receptors (α_1-ARs; pA_2s = 9.47, 9.02, and 9.99 in isolated rat tail artery, rabbit aorta, and rat aorta, respectively).[2] *In vivo*, NAN-190 (1-300 µg/kg) decreases blood pressure, without modifying heart rate, in anesthetized rats. It inhibits phenylephrine-induced pressor responses in pithed rats. NAN-190 (5 mg/kg, i.p.) potentiates the circadian response to light in dark-adapted and entrained hamsters.[3]

References

1. Rydelek-Fitzgerald, L., Teitler, M., Fletcher, P.W., *et al.* NAN-190: Agonist and antagonist interactions with brain 5-HT_{1A} receptors. *Brain Res.* **532(1-2),** 191-196 (1990).
2. Villalobos-Molina, R., Gallardo-Ortíz, I.A., López-Guerrero, J.J., *et al.* Evidence that NAN-190-induced hypotension involves vascular α_1-adrenoceptor antagonism in the rat. *Eur. J. Pharmacol.* **455(1),** 59-64 (2002).
3. Kessler, E.J., Sprouse, J., and Harrington, M.E. NAN-190 potentiates the circadian response to light and speeds re-entrainment to advanced light cycles. *Neuroscience* **154(4),** 1187-1194 (2008).

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