Print Date: May 22nd 2020

Certificate of Analysis

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Product Name: **NAN-190 hydrobromide** **Catalog No.: 0553** **Batch No.: 4**

CAS Number: 115338-32-4

IUPAC Name: 1-(2-Methoxyphenyl)-4-(4-phthalimidobutyl)piperazine hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{27}N_3O_3.HBr.½H_2O$

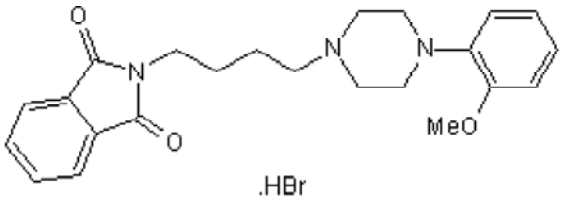
Batch Molecular Weight: 483.41

Physical Appearance: Yellow solid

Solubility: DMSO to 10 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Chloroform:Methanol [9:1])

HPLC: Shows 98.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.15	6.05	8.69
Found	57.06	6.03	8.49

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

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CAS Number: 115338-32-4

IUPAC Name: 1-(2-Methoxyphenyl)-4-(4-phthalimidobutyl)piperazine hydrobromide

Description:

5-HT_{1A} antagonist.

Physical and Chemical Properties:

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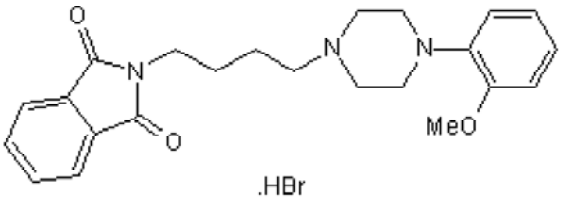
Batch Molecular Weight: 483.41

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Douris (1992) Effects of the putative 5-HT_{1A} receptor antagonist NAN-190 on free feeding and on feeding induced by the 5-HT_{1A} receptor agonist 8-OH-DPAT in the rat. Eur.J.Pharmacol. ***219*** 105. PMID: 1397037.

Glennon *et al* (1988) Arylpiperazine derivatives as high affinity 5-HT_{1A} serotonin ligands. J.Med.Chem. ***31*** 1968. PMID: 3172131.

Williams and Glennon (1988) NAN-190: an arylpiperazine analog that antagonizes the stimulus effects of the 5-HT_{1A} agonist 8-hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT). Eur.J.Pharmacol. ***154*** 339. PMID: 2976673.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

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