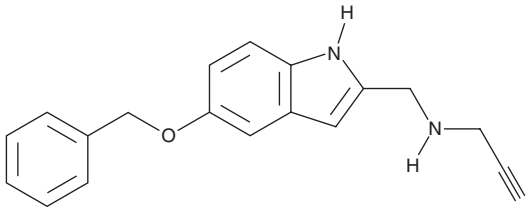
PRODUCT INFORMATION

PF 9601N

Item No. 34258

CAS Registry No.:	133845-63-3
Formal Name:	5-(phenylmethoxy)-N-2-propyn-1-yl-1H-indole-2-methanamine
MF:	$C_{19}H_{18}N_2O$
FW:	290.4
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

PF 9601N is supplied as a solid. A stock solution may be made by dissolving the PF 9601N in the solvent of choice, which should be purged with an inert gas. PF 9601N is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PF 9601N in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

PF 9601N is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PF 9601N should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PF 9601N has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PF 9601N is an inhibitor of monoamine oxidase B (MAO-B).[1] It selectively inhibits MAO-B in mouse brain homogenates *ex vivo* (ID_{50} = 381 nmol/kg) and prevents MPTP-induced reductions in dopamine levels in the striatum of 8- to 9-week-old mice when administered at doses ranging from 29.5 to 8.47 µmol/kg. PF 9601N (0.027 µmol/kg) prevents MPTP-induced lesions in 9- to 10-month-old mice. It also increases the duration of contralateral rotational behavior induced by L-DOPA (Item No. 13248) in a rat model of Parkinson's disease induced by 6-OHDA (Item No. 25330) when administered at doses of 40 and 60 mg/kg.[2]

References

1. Perez, V. and Unzeta, M. PF 9601N [N-(2-propynyl)-2-(5-benzyloxy-indolyl) methylamine], a new MAO-B inhibitor, attenuates MPTP-induced depletion of striatal dopamine levels in C57/BL6 mice. *Neurochem. Int.* **42(3)**, 221-229 (2003).
2. Prat, G., Pérez, V., Rubi, A., *et al.* The novel type B MAO inhibitor PF9601N enhances the duration of L-DOPA-induced contralateral turning in 6-hydroxydopamine lesioned rats. *J. Neural Transm. (Vienna)* **107(4)**, 409-417 (2000).

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