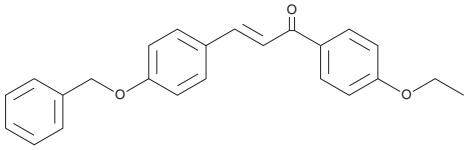
PRODUCT INFORMATION

hMAO-B-IN-5

Item No. 46470

CAS Registry No.:	358343-63-2
Formal Name:	1-(4-ethoxyphenyl)-3-[4-(phenylmethoxy) phenyl]-2-propen-1-one
Synonym,:	hMAO-B Inhibitor 5, Human Monoamine Oxidase B-IN-5, Human Monoamine Oxidase B Inhibitor 5, PMS-1
MF:	$C_{24}H_{22}O_3$
FW:	358.4
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

hMAO-B-IN-5 is supplied as a solid. A stock solution may be made by dissolving the hMAO-B-IN-5 in the solvent of choice, which should be purged with an inert gas. hMAO-B-IN-5 is soluble (≥10 mg/ml) in DMSO.

Description

hMAO-B-IN-5 is an inhibitor of monoamine oxidase B (MAO-B; IC_{50} = 0.12 µM).[1] It is selective for MAO-B over MAO-A (IC_{50} = 34.512 µM). hMAO-B-IN-5 is also active against the Gram-positive bacteria *B. subtilis* and *S. aureus* (MICs = 0.349 and 0.697 µM, respectively) and the Gram-negative bacteria *P. aeruginosa*, *E. coli*, *S. typhi*, and *P. vulgaris* (MICs = 0.349, 0.174, 0.174, and 0.174 µM, respectively).[2]

References

1. Sudevan, S.T., Oh, J.M., Abdelgawad, M.A., *et al.* Introduction of benzyloxy pharmacophore into aryl/heteroaryl chalcone motifs as a new class of monoamine oxidase B inhibitors. *Sci. Rep.* **12(1)**, 22404 (2022).
2. Sivakumar, P.M., Ganesan, S., Veluchamy, P., *et al.* Novel chalcones and 1,3,5-triphenyl-2-pyrazoline derivatives as antibacterial agents. *Chem. Biol. Drug Des.* **76(5)**, 407-411 (2010).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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