Donepezil N-oxide
Item No. 27174

CAS Registry No.: 120013-84-5
Formal Name: 2,3-dihydro-5,6-dimethoxy-2-
   [[1-oxido-1-(phenylmethyl)-4-
   piperidinyl][methyl]-1H-inden-1-one
MF: C_{24}H_{29}NO_{4}
FW: 395.5
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

Donepezil N-oxide is supplied as a solid. A stock solution may be made by dissolving the donepezil N-oxide in the solvent of choice, which should be purged with an inert gas. Donepezil N-oxide is slightly soluble in chloroform and methanol.

Description

Donepezil N-oxide is an active metabolite of the acetylcholinesterase inhibitor donepezil (Item No. 13245).\(^1\) Donepezil N-oxide inhibits cholinesterase (ChE) activity in human erythrocytes in a concentration-dependent manner, exhibiting 45.5% inhibition when used at a concentration of 20 µM.\(^2\)

References