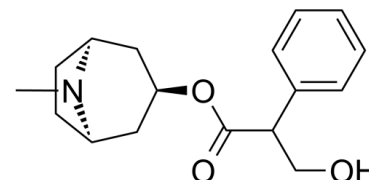


Data Sheet

Product Name:	Atropine
Cat. No.:	CS-4834
CAS No.:	51-55-8
Molecular Formula:	C ₁₇ H ₂₃ NO ₃
Molecular Weight:	289.37
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 96.6 mg/mL (333.83 mM); H ₂ O : 2.9 mg/mL (10.02 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Atropine (Tropine tropate) is a competitive **muscarinic acetylcholine receptor (mAChR)** antagonist with anti-myopia effect^[1]. IC₅₀ & Target: Muscarinic acetylcholine receptor^[1]

References:

[1]. McBrien NA, et al. How does atropine exert its anti-myopia effects? Ophthalmic Physiol Opt. 2013 May;33(3):373-8.

CAIndexNames:

Benzeneacetic acid, α-(hydroxymethyl)- (3-endo)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester

SMILES:

O=C(O[C@@H]1C[C@@H](N2C)CC[C@@H]2C1)C(CO)C3=CC=CC=C3

Caution: Product has not been fully validated for medical applications. For research use only.

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