

Monardic acid A

Chemical Properties

CAS No. :	1607436-76-9
Formula:	C ₂₇ H ₂₂ O ₁₂
Molecular Weight:	538.46
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Monardic acid A is a selective inhibitor of AChE, with an IC ₅₀ of 53.1 μM against AChE derived from electric eels. It shows weak inhibitory activity on human erythrocyte AChE (IC ₅₀ >100 μM) and has no significant effect on BChE. By inhibiting AChE activity, Monardic acid A decreases acetylcholine breakdown while also inhibiting histamine release and hyaluronidase activity, contributing to its anti-inflammatory and neurotransmitter-regulating properties. It can be isolated from lungwort (<i>Pulmonaria officinalis</i>) and thyme (<i>Thymus gobicus</i>) and is primarily used in the development of anti-inflammatory drugs and treatments for neurodegenerative diseases.
Targets(IC ₅₀)	Cholinesterase (ChE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8571 mL	9.2857 mL	18.5715 mL
5 mM	0.3714 mL	1.8571 mL	3.7143 mL
10 mM	0.1857 mL	0.9286 mL	1.8571 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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