

5-Amino-1MQ

5-Amino-1MQ is not a peptide; it is a small-molecule quaternary quinolinium compound that inhibits the enzyme nicotinamide N-methyltransferase (NNMT). It has been studied in cell and rodent models of obesity and metabolism.

Formula	$C_{10}H_{11}N_2^+$ (cation)
Average mass	159.21 g/mol
Evidence	Preclinical (animal and cell studies)
US status	Not an FDA-approved drug
WADA	Check the current Prohibited List

Small-molecule quinolinium salt; not a peptide. Usually supplied as the iodide.

What the COA should show

Because 5-amino-1MQ is a small molecule rather than a peptide, its certificate of analysis should confirm identity by mass spectrometry and ideally by NMR spectroscopy, and report purity by HPLC with UV detection. As a permanently charged cation, it must be supplied as a salt, so the certificate should name the counter-ion and report content of the active cation. Positional isomers (amino group at a different ring position) and unmethylated quinoline precursors are relevant impurities. Residual solvents and water content are useful additional data.

Storage and stability

Store 5-amino-1MQ sealed at -20 °C or at the temperature stated on the supplier documentation, protected from light and moisture. Aromatic amines can discolor on exposure to light and air, which may indicate degradation. Allow containers to reach room temperature before opening, prepare solutions close to use, and avoid repeated freeze-thaw cycles.

Full entry, references and latest research: <https://peptidewiki.net/compounds/5-amino-1mq/>
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