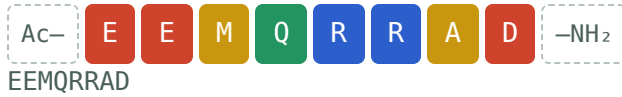


Snap-8

Snap-8, or acetyl octapeptide-3, is a synthetic eight-residue cosmetic peptide, Ac-EEMQRRAD-NH₂, modeled on the N-terminal region of the SNARE protein SNAP-25. It is studied mainly in vitro and in cosmetic formulation research.



■ Hydrophobic ■ Acidic ■ Basic ■ Polar ■ Gly, Pro, Cys ■ Non-standard

Length	8 residues
Formula	C ₄₁ H ₇₀ N ₁₆ O ₁₆ S
Average mass	1,075.16 g/mol
Monoisotopic mass	1,074.4876 Da
Evidence	Preclinical (animal and cell studies)
US status	Not FDA-approved for any use
WADA	Check the current Prohibited List

Acetylated octapeptide amide (acetyl octapeptide-3).

Expected ions (monoisotopic)

[M+H] ⁺	[M+2H] ²⁺	[M+3H] ³⁺	[M+4H] ⁴⁺
1,075.4949	538.2511	359.1698	269.6292

What the COA should show

A good certificate of analysis should confirm identity by mass spectrometry, with the observed mass matching the expected mass shown on this page for the acetylated, amidated octapeptide, and report HPLC purity with the chromatogram. Check that both terminal modifications are present: a missing acetyl group shifts the mass by 42 Da and a free acid in place of the amide by about 1 Da, which can be hard to resolve on low-resolution instruments. The methionine is oxidation-prone, so a +16 Da peak should be looked for and reported. Confusion with the shorter acetyl hexapeptide is another pitfall, as is an unstated counter-ion.

Storage and stability

Store lyophilized Snap-8 sealed at -20 °C, protected from light, moisture and air, and equilibrate to room temperature before opening. The methionine residue can oxidize, so minimize headspace and consider inert-gas purging for long-term storage. In solution, keep refrigerated for short-term lab use, aliquot for frozen storage, and avoid repeated freeze-thaw cycles. Glutamine and aspartate residues can degrade over time in aqueous solution, especially at extreme pH.

Full entry, references and latest research: <https://peptidewiki.net/compounds/snap-8/>
For laboratory research reference only. Not medical advice; not for human or veterinary use.