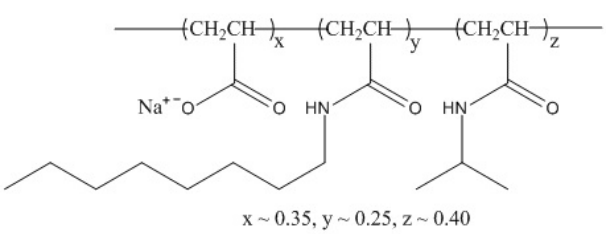
DATA SHEET

Jena Bioscience

Amphipol A8-35

Cat. No.	Amount
X-A835	50 mg



Amphipol A8-35 Structure

For general laboratory use.

Shipping: shipped at ambient temperature

Storage Conditions: store at -20 °C

Shelf Life: 12 months

Molecular Formula: $(C_{6.2}H_{10.3}O_{1.35}N_{0.65}Na_{0.35})_{72}$

Molecular Weight: approx. 9 kDa

CAS#: 326856-53-5

Applications:
Stabilizing agent in Cryo-EM[2-5] and X-ray crystallography[6]

Description:
Amphipol A8-35 is a short amphipatic polymer that is specifically designed for membrane protein stabilization. The surfactant possesses a very high affinity for the transmembrane surfaces and allows to solubilize membrane proteins in a detergent-free aqueous solution[1].

Selected References:
[1] Zoonens *et al.* (2014) Amphipols for Each Season. *J Membrane Biol* **247**:759.
[2] Chen *et al.* (2016) Structure of the STRA6 receptor for retinol uptake. *Science* **353**:887.
[3] Zubcevic *et al.* (2016) Cryo-Electron Microscopy of the Trpv2 Ion Channel. *Nat Struct Mol Biol* **23**:180.
[4] Bai *et al.* (2015) Sampling the conformational space of the catalytic subunit of human gamma-secretase. DOI 10.7554/eLife.11182.
[5] Althoff *et al.* (2011) Arrangement of electron transport chain components in bovine mitochondrial supercomplex $I_1III_2IV_1$. *EMBO J* **30**:4652.
[6] Polovinkin *et al.* (2014) High-Resolution Structure of a Membrane Protein Transferred from Amphipol to a Lipidic Mesophase. *J Membrane Biol* **247**:997.