Vision ProTein

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Immersive 3D Protein Visualisation — Built Exclusively for Apple Vision Pro

Vision ProTein is the first professional molecular visualisation app designed from the ground up for visionOS. It lets researchers, educators, and students explore protein structures in true spatial 3D using natural hand gestures — with real-time collaboration via FaceTime SharePlay.

AT A GLANCE

Quick Facts

Product: Vision ProTein
Publisher: EPage, Inc.
Platform: visionOS 26.0+ (Apple Vision Pro)
Category: Education · Medical · Productivity
Availability: Available now on the App Store
App Store ID: 6499503487
Website: visionprotein.com
Press contact: visionproteinapp@gmail.com
Database: RCSB Protein Data Bank — 200,000+ structures
File formats: PDB · mmCIF (.cif) · SDF · MOL
Technology: Swift · SwiftUI · RealityKit (100 % native code)
Performance: 500+ entities rendered simultaneously, real-time

CORE CAPABILITIES

Visualization Modes

- **Ball & Stick** — Atoms rendered as CPK-coloured spheres with bond cylinders. Supports ligand and hydrogen-bond overlays, Tag Mode, and Measure Mode.
- **Ribbon (Cartoon)** — Backbone trace: alpha helices as coiled ribbons, beta sheets as flat arrows, loops as tubes. Structure, Chain, or Uniform colouring.
- **Sphere (Space-Filling)** — Van der Waals surface for every atom. Folded/Unfolded animation for multi-chain proteins such as haemoglobin.

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CORE CAPABILITIES

Research Workflow

- **Sessions** — Save the whole scene to a Vision ProTein folder in iCloud Drive and reopen it later. Each protein returns with its display settings, tagged residues, orientation, scale, notes, and measurements, laid out in front of you. Session files can also be shared with colleagues.
- **Notes & Measurements** — Attach text notes and save atom-to-atom distances for each protein, then export them as Markdown, CSV, or JSON for lab notebooks and analysis scripts.
- **Snapshots** — Capture 2D or Spatial photos of a structure, or a transparent-background PNG for slides and figures, and share them straight from the preview.
- **Open from Anywhere** — Open PDB, mmCIF, SDF, MOL, and session files from Files, Mail, Messages, or AirDrop. visionprotein:// links open a structure from a lab notebook or paper and can tag a residue range.

SUBSCRIPTIONS

Pricing Tiers

Free

- All three visualisation modes (Ball & Stick, Ribbon, Sphere)
- Built-in library of 5 curated protein structures
- Immersive skybox environments (bio lab, lecture hall, office, plaza)
- In-app education content — amino acid guide and protein basics

Plus

- Everything in Free
- PDB Code Search — instant access to 200,000+ RCSB structures
- File import from Files, Mail, and AirDrop (PDB, mmCIF, SDF, MOL), plus visionprotein:// links
- Session save and restore — keep your scene in iCloud Drive, share it, and reopen it later
- Amino acid sequence scroll panel with residue highlighting
- 1024 × 1024 snapshot export (2D and Spatial photos, optional transparent PNG), shareable from the preview

Colab

- Everything in Plus
- Tag Mode — left-hand pinch to tag residues, or tag from a link; adjustable radius (0–15 Å)
- Measure Mode — tap pairs of atoms to read distances in ångströms, with up to 8 measurements on screen at once
- Saved measurements and per-protein text notes, exportable as Markdown, CSV, or JSON
- SharePlay — real-time collaborative viewing via FaceTime
- Multiple simultaneous proteins — load and compare side by side
- Multi-protein sessions — save and restore every loaded protein, laid out relative to you
- URL Download — load any PDB or mmCIF file from a direct URL
- UniProt accession and full-text RCSB search
- 4K snapshot export (4096 × 4096)

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INTERACTION

Hand Gesture Controls

- **Pinch & Drag** — Move a protein anywhere in space with one hand.
- **Two-Handed Scale** — Spread or bring both hands together to zoom in or out.
- **Two-Handed Rotate** — Rotate hands around each other to spin the molecule freely.
- **Left-Hand Fist** — Close fist to surface a compact palm-top control panel.
- **Left-Hand Pinch (Tag)** — In Tag Mode, pinch an atom to tag the surrounding residue.
- **Left-Hand Pinch (Measure)** — In Measure Mode, pinch two atoms to measure their distance; pinch a third to start another.
- **Tap Camera Sphere** — Capture a snapshot hovering above the protein.
- **Look & Tap** — Eyes focus on a control, then tap to activate it.

ABOUT

Boilerplate

SHORT (50 WORDS)

Vision ProTein is the first professional molecular visualisation app built exclusively for Apple Vision Pro. It transforms biochemistry education and research by letting users explore protein structures in true 3D space with natural gesture controls and real-time collaboration through SharePlay.

FULL (150 WORDS)

Vision ProTein brings molecular biology into spatial computing, offering researchers, educators, and students an unprecedented way to visualise and interact with protein structures. Unlike traditional 2D screens, Vision ProTein leverages Apple Vision Pro's spatial computing capabilities to place molecules in physical space at any scale — from desktop-sized to room-scale. Users can access over 200,000 protein structures from the RCSB Protein Data Bank, import custom molecular files, and switch between sphere, ribbon, and ball-and-stick rendering modes. Advanced features include atomic distance measurements, amino acid tagging, ligand visualisation, and hydrogen bond mapping. Whole scenes can be saved to iCloud Drive and restored later, notes and measurements exported for lab records, and structures opened from deep links in lab notebooks. The app supports real-time collaboration through SharePlay, enabling remote lab work and classroom instruction. Built entirely with Swift and RealityKit, Vision ProTein represents a new category of professional spatial computing applications designed for scientific research and education.

PRESS CONTACT

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App Store: apps.apple.com/us/app/vision-protein/id6499503487
Response: Within 24 hours

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