A. 5uM

A. 10% SDS

SEC: Superdex 200

B.

GliP (236kDa)

Phenylalanine

Serine

cyclo-(L-Phenylalanyl-L-seryl)

M.D. Simulation overlay with SAXS envelope

D.
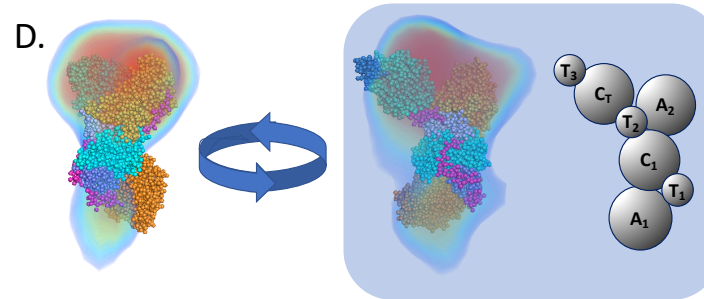
Preliminary 2D Classification from ns-EM

E.

C. SEC-MALS PROFILE: Superose 12 30/100GL)
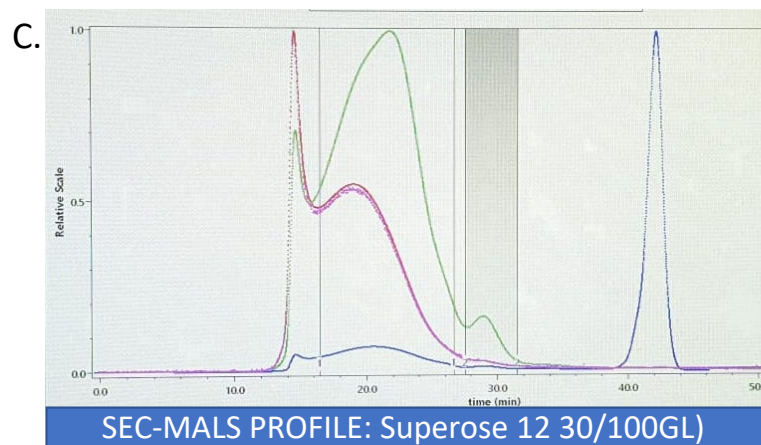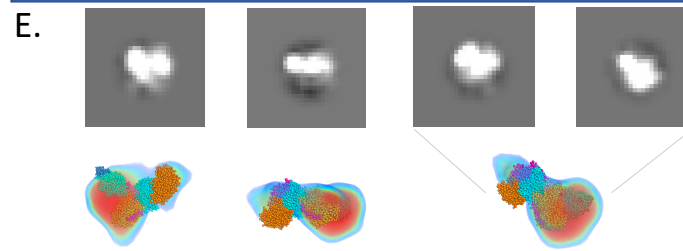
A. Purification of GliP Final stock of 236kDa GliP on 10% SDS-PAGE, (right) chromatography profile from SEC with Superdex200

B. GliP Domain Architecture and Reaction GliP catalyzes the diketopiperazine scaffold for Gliotoxin

C. SEC-MALS Profile for GliP Illustrates equilibrium of oligomeric states, small green monomer peak highlighted

D. Molecular Dynamics Model for GliP overlayed with envelope from SAXS Red represents region of domain flexibility for execution of catalysis

E. 2D Classification with RELION ns-imag... ...20keV Tecnai TEM ...x P... ...da Institute. 1000 ...les ...ked manually from 50 micrographs. (*bottom*) Comparison ...res... ...ass averages with ...co ...m MD and SAXS ...ope...