■ Navigation Tabs



△ 1FZD

STRUCTURE OF RECOMBINANT ALPHAEC DOMAIN FROM HUMAN FIBRINOGEN-420

PDB DOI: https://doi.org/10.2210/pdb1FZD/pdb

Classification: BLOOD COAGULATION

Organism(s): Homo sapiens

Expression System: Komagataella pastoris

Mutation(s): No

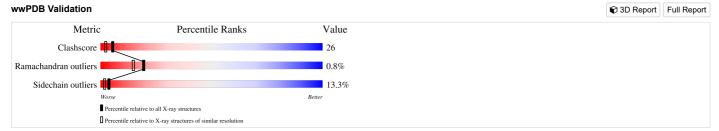
Deposited: 1998-06-22 **Released:** 1998-08-19

Deposition Author(s): Spraggon, G., Applegate, D., Everse, S.J., Zhang, J.-Z., Veerapandian, L., Redman, C., Doolittle, R.F., Grieninger, G.

Experimental Data Snapshot

Method: X-RAY DIFFRACTION

Resolution: 2.10 Å R-Value Free: 0.255 R-Value Work: 0.195 R-Value Observed: 0.199



This is version 2.1 of the entry. See complete history.

Literature

Crystal structure of a recombinant alphaEC domain from human fibrinogen-420.

 $\underline{Spraggon, G., \, Applegate, D., \, Everse, S.J., \, Zhang, J.Z., \, \underline{Veerapandian, L., \, Redman, C., \, \underline{Doolittle, R.F., \, Grieninger, G.}$

(1998) Proc Natl Acad Sci U S A 95: 9099-9104

PubMed: <u>9689040</u>

DOI: https://doi.org/10.1073/pnas.95.16.9099 Primary Citation of Related Structures: 1FZD

PubMed Abstract:

The crystal structure of a recombinant alphaEC domain from human fibrinogen-420 has been determined at a resolution of 2.1 A. The protein, which corresponds to the carboxyl domain of the alphaE chain, was expressed in and purified from Pichia pastoris cells. Felicitously, during crystallization an amino-terminal segment was removed, apparently by a contaminating protease, allowing the 201-residue remaining parent body to crystallize. An x-ray structure was determined by molecular...

O View More

Organizational Affiliation:

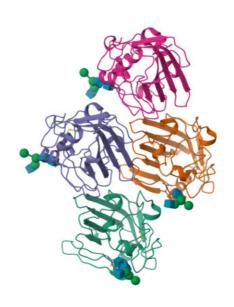
Center for Molecular Genetics, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0634, USA.



Biological Assembly 1





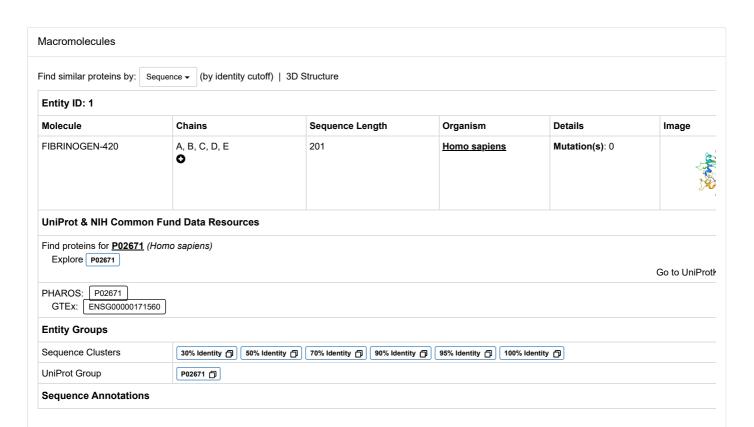


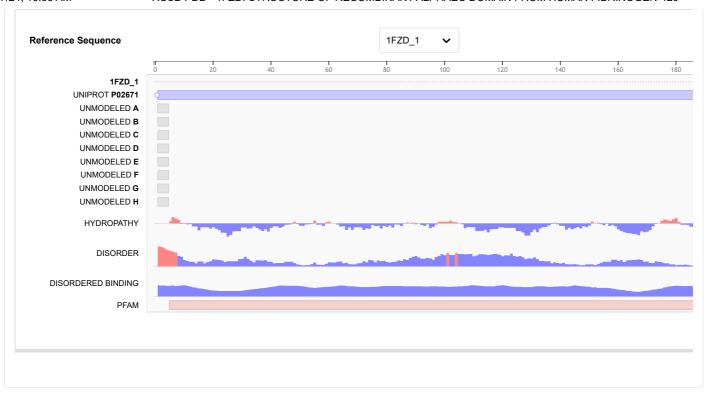
© Explore in 3D: Structure | Sequence Annotations | Validation Report | Ligand Interaction (NAG)

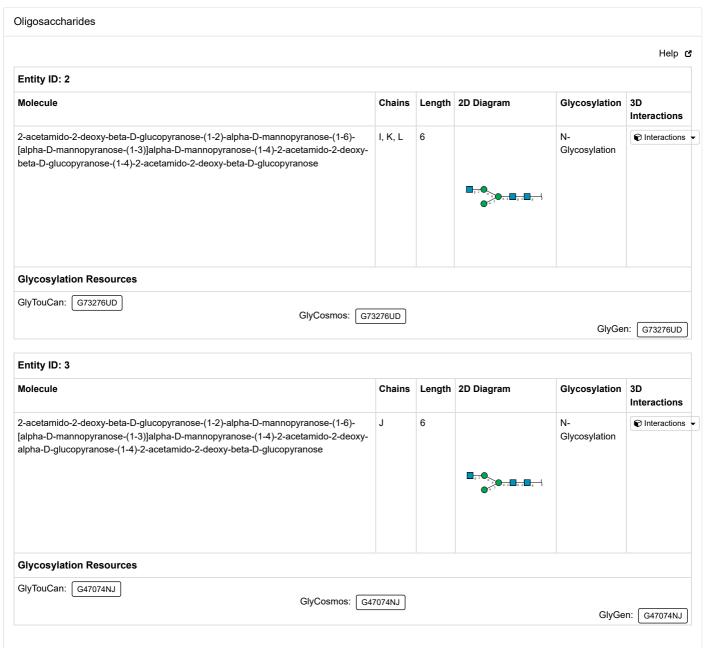
Global Symmetry: Helical - H (Explore in 3D)
Global Stoichiometry: Homo 4-mer - A4

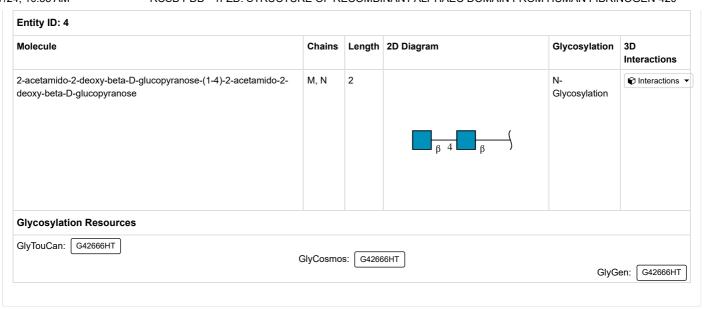
Find Similar Assemblies

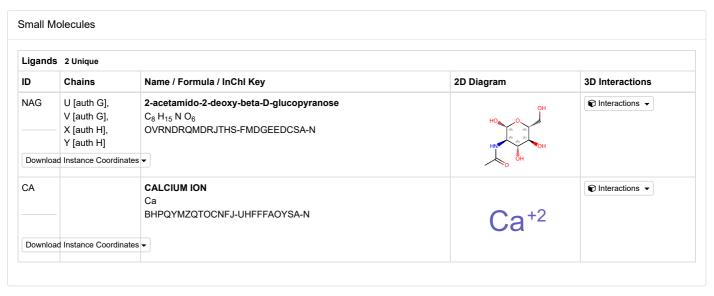
Biological assembly 1 assigned by authors.





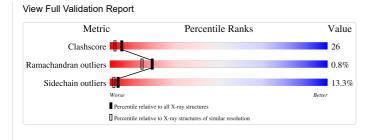






Experimental Data & Validation	
Experimental Data	
Method: X-RAY DIFFRACTION Resolution: 2.10 Å R-Value Free: 0.255 R-Value Work: 0.195 R-Value Observed: 0.199 Space Group: <u>P 1</u>	
Unit Cell:	
Length (Å)	Angle (°)
a = 71.25	α = 104.6
b = 105.18	β = 108.95
c = 71.14	γ = 71.47
Software Package:	
Software Name	Purpose
SCALEPACK	data scaling
X-PLOR	model building
REFMAC	refinement
X-PLOR	refinement
X-PLOR	phasing

Structure Validation



Entry History

Deposition Data

Released Date: 1998-08-19

Deposition Author(s): Spraggon, G., Applegate, D., Everse, S.J., Zhang, J.-Z., Veerapandian, L., Redman, C., Doolittle, R.F., Grieninger, G.

Revision History (Full details and data files)

• Version 1.0: 1998-08-19

Type: Initial release

· Version 1.1: 2008-03-21

Changes: Version format compliance

• Version 1.2: 2011-07-13

Changes: Non-polymer description, Version format compliance

· Version 2.0: 2020-07-29

Type: Remediation

Reason: Carbohydrate remediation

Changes: Advisory, Atomic model, Data collection, Derived calculations, Structure summary

• Version 2.1: 2023-08-09

Changes: Advisory, Database references, Refinement description, Structure summary

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