

INTRODUCTION

A general introduction and references to our work

DATABANK

Examine Databank contents by subject categories

SEARCH

Examine Databank contents using search engine

RESOURCES

General information on heavy atoms, results of analysis etc

CONTRIBUTE

Information for authors wishing to contribute data to the databank

LINKS

Useful links

AUTHORS/ENQUIRES

Information, email etc about us



INTRODUCTION

Over the past few years we have collected information on the preparation and characterisation of HEAVY-ATOM derivatives of protein crystals. This information has been assembled in the form of a DATABANK (called **HAD**). In addition to the experimental information this databank also contains information resulting from an analysis of the binding of these heavy-atoms with proteins in the crystal environment. In summary, the databank contains the following information:

Experimental Conditions for crystallisation Chemical details of the heavy-atom compounds used Bibliographic References Atomic coordinates of heavy-atoms Details of binding sites of heavy-atoms/protein crystal environment Atomic coordinates of heavy-atoms/protein crystal environment

This databank will be of interest, not only to protein crystallographers but to anyone interested in the interaction of heavy-atoms with proteins. We would like to thank the many Crystallographers who kindly provided information which was not available in the literature.

Please send all comments/queries to Suhail A. Islam

REFERENCES

David Carvin, Suhail A Islam, Michael JE Sternberg and Thomas L Blundell
Establishment of a Heavy-Atom Databank for Protein Structures Isomorphous
Replacement and Anomalous Scattering.
**Proceedings of CCP4 Study Weekend - 25-26 January 1991 Science and
Engineering Research Council, Daresbury Laboratory**

David Carvin, Suhail A Islam, Michael JE Sternberg and Thomas L Blundell
HAD, A Databank of Heavy-Atom binding sites in protein crystals: A resource for use in
multiple isomorphous replacement and anomalous scattering.
**Acta. Cryst., Sect. D-Biological Crystallography. Nov 1 1998; 54 Part 6 Special Iss.
S1: 1199-1206**

Carivn, D, Islam, S.A., Sternberg, S and Blundell, T.L.
The preparation of heavy-atom derivatives of protein crystals for use in multiple
isomorphous replacement
International Tables for Crystallography, Volume F Chapter 12.1.