

REQUEST FOR SINGLE CRYSTAL X-RAY STRUCTURE DETERMINATION

Name \_\_\_\_\_ Date \_\_\_\_\_ E-mail \_\_\_\_\_

Research Director \_\_\_\_\_ Lab \_\_\_\_\_

Compound Name and Notebook reference \_\_\_\_\_

Chemical Formula \_\_\_\_\_ Melting Point \_\_\_\_\_

Crystallized from \_\_\_\_\_ @ \_\_\_\_\_ °C

Unstable with respect to:  air  water  light  heat(RT)  solvent loss  none

Chemical composition confirmed by (check all that apply):  mass spec  NMR

elemental  IR  other (specify) \_\_\_\_\_

Reason for structure analysis:  identification  precise distances and angles

relative stereochemistry  absolute configuration

Crystals are most likely composed of a:  nonchiral molecule,  single enantiomer

racemic mixture

Has x-ray work ever been done on this compound? \_\_\_\_\_ (if yes, supply reference(s) \_\_\_\_\_

Have you searched the Cambridge Crystallographic Database for this molecule? \_\_\_\_\_

Have you submitted crystals of this same substance to any other crystallographers? If so, when and what is the status of the structure? \_\_\_\_\_

Other notes (details of sample prep, precautions, chirality, previous x-ray work on same system...) \_\_\_\_\_

Possible Structures: Draw below and indicate percent confidence in each structure. If you have a preferred numbering scheme, please include it below.