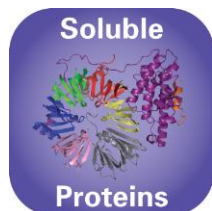
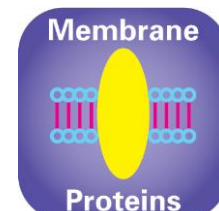




Molecular
Dimensions



Morpheus® Additive Screen



Use the power of Morpheus to optimize your crystals. Morpheus Additive is a new 96 condition screen containing a unique range of ligands, heavy atoms and polyols.

Features of Morpheus Additive:

- Test a large range of precipitants, stabilizers, buffers, nucleants, phasing compounds, cryoprotectants and surfactants all in one screen
- Inclusion of non-detergent sulfobetaines (NDSBs), polyamines, amino acids and monosaccharides to modify the solubility and stability of many proteins.
- Contains heavy atoms which can be used for experimental phasing
- Can also be used in protein stability screen assays e.g. thermal shift assays

Morpheus® Additive uses reagents that are not seen in other screens, especially less common additives.

Some additives such as metal divalent cations can induce new crystal contacts. Heavy atoms were integrated to help with *ab initio* structure determination.

Most of the other additives are included to alter protein stability and solubility (carboxylic acids, polyamines and monosaccharides).



Crystals of Polymerase complex (80 kDa) courtesy of Fabrice Gorrec, MRC

References:

Gorrec, F (2015). The Morpheus II protein crystallization screen, manuscript submitted.

Gorrec, F (2013). The current approach to initial crystallization screening of proteins is under-sampled *J Appl Cryst* **46**, 795-797.

Morpheus®, Morpheus® II and Morpheus® Additive have been designed and developed by Fabrice GORREC, in collaboration with the scientists at the Medical Research Council Laboratory of Molecular Biology (LMB) at Cambridge and is manufactured exclusively under license by Molecular Dimensions Limited.

Ordering Morpheus Additive:

The Morpheus®
Additive Screen

96 x 100 µL

MD1-93

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