Cure your screening problems with the drug-like additives in Morpheus III.

Exclusively from Molecular Dimensions, the new Morpheus® III screen uniquely contains a range of small, drug-like compounds to aid protein stabilisation and crystallisation.

- Increases the chances of a hit by expanding the amount of chemical space screened with drug-like additives, including phytochemicals, antibiotics, cholic acid derivatives and vitamins.
- Unique to Morpheus III, these compounds aid crystallisation, as they can be protein-stabilising and are often found in structures in the PDB.
- Hits can be easily optimised with the Hippocrates additive screen which contains all 44 drug-like compounds used in Morpheus III.
- Morpheus III is not biased towards particular macromolecules or reagents as it was designed de novo and optimised against a broad range of protein samples.
- Developed by Dr Fabrice Gorrec of the MRC-LMB, Cambridge, UK, the creator of a range of popular and novel screens including Morpheus and the LMB Crystallisation screen, all of which have successfully crystallised a number of challenging targets.

Dr Fabrice Gorrec of MRC-LMB, Cambridge, UK developed the popular Morpheus and Morpheus II screens, which have been proven to be very efficient at crystallising a broad variety of protein samples. Just as with those screens, Morpheus III was designed from scratch and optimised against a broad range of protein samples to avoid bias.

References

The Morpheus III screen and Hippocrates additive screen were developed at the MRC-LMB, Cambridge, UK and exclusively licensed to Molecular Dimensions by LifeARC.

### Ordering Information

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<th>Pack Size</th>
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<tr>
<td>MD1-116</td>
<td>96 x 10 mL</td>
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<tr>
<td>MD1-117</td>
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<td>MD1-118</td>
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Crystals of human USB 1 (2H phosphoesterase) obtained with Morpheus III. With kind permission of Dr Christine Hilcenko (University of Cambridge, UK).
Maximise your screening potential with the Morpheus® screen family

Rational screens designed *de novo* and optimised against a range of protein samples to avoid bias by Dr Fabrice Gorrec of the MRC-LMB, Cambridge UK.

**The Morpheus® screen**
Ever popular screen that accesses novel chemical space with a range of low molecular weight compounds that are frequently occurring ordered ligands in the PDB.

**The Morpheus II screen**
This second Morpheus screen includes reagents not usually found in initial screens to expand crystallisation space.

**The Morpheus Additive screen**
All the reagents employed in the formulations of Morpheus and Morpheus II (including the PDB-derived ligands) as an additive screen to enhance protein stability and solubility.

**References**

All screens were developed at the MRC-LMB, Cambridge, UK and exclusively licensed to Molecular Dimensions by LifeARC.

**ORDERING INFORMATION**

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<td>MD1-47</td>
<td>96 x 1 mL   Morpheus HT-96</td>
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<td>MD1-91</td>
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<td>MD1-92</td>
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<td>96 x 100 µL Morpheus Additive screen</td>
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<td>MD1-98</td>
<td>96 x 10 mL  The LMB Crystallisation screen</td>
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<td>MD1-99</td>
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<td>MD1-100</td>
<td>96 x 1 mL   The ANGSTROM Additive screen</td>
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A complex of endocytic proteins grown in condition B6 of the LMB Crystallisation screen. Thanks to Dr L. Almeida-Souza.

<table>
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<tr>
<th>Reference</th>
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Polyols are great optimisation reagents as they can mediate protein-protein interactions via multiple hydroxyl groups. As well as enhancing protein and lattice stability, every polyol supplied has cryoprotectant properties.

Some of the polyols included in the Angstrom Additive screen.