

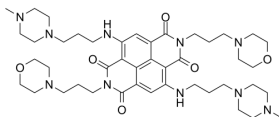
## MM41

Cat. No.: HY-16967  
CAS No.: 1429028-96-5  
Batch No.: 155901  
Chemical Name: Benzo[*lmn*][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 4,9-bis[[3-(4-methyl-1-piperazinyl)propyl]amino]-2,7-bis[3-(4-morpholinyl)propyl]-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>44</sub>H<sub>66</sub>N<sub>10</sub>O<sub>6</sub>  
Molecular Weight: 831.06  
Storage: Powder -20°C 3 years  
In solvent -80°C 6 months  
-20°C 1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance: Blue to purple (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
LCMS: Consistent with structure  
Purity (LCMS): 99.92%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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