

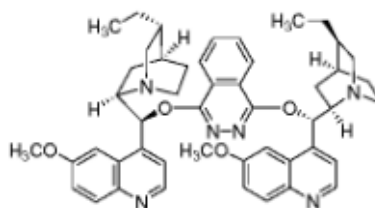
3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
(DHQD)<sub>2</sub> PHAL - ≥95%

Product Number: **392731**  
CAS Number: 140853-10-7  
MDL: MFCD00198107  
Formula: C<sub>48</sub>H<sub>54</sub>N<sub>6</sub>O<sub>4</sub>  
Formula Weight: 778.98 g/mol



### TEST

### Specification

Appearance (Color)	White to Light Yellow
Appearance (Form)	Powder
Infrared spectrum	Conforms to Structure
Proton NMR spectra	Conforms to Structure
OPTICAL ROTATION	-282 - -242 °
C= 1.2%, METHANOL	
Carbon	70.3 - 77.7 %
Nitrogen	10.1 - 11.3 %
Purity (HPLC)	≥ 95.0 %

Specification: PRD.0.ZQ5.10000019214

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.