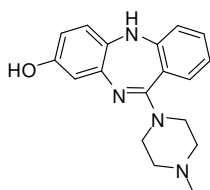




## Certificate of Analysis

**Axon Catalogue ID:** 1151 **Batch Number:** 1  
**Product Name:** GMC 1-116  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 11-(4-Methylpiperazin-1-yl)-5H-dibenzo[b,e][1,4]diazepin-8-ol

**Structure:**



**Amount:**

**CAS number(s):** 63687-94-5  
**Molecular Formula:** C<sub>18</sub>H<sub>20</sub>N<sub>4</sub>O **Molecular Weight:** 308.38  
**Batch Molecular Formula:** C<sub>18</sub>H<sub>20</sub>N<sub>4</sub>O.1.25H<sub>2</sub>O **Batch Molecular Weight:** 330.90  
**Appearance:** Yellow solid **Observed mp:** 260°C (decomp.)  
**TLC (R<sub>f</sub>):** 0.36 DCM/MeOH (4:1)  
**Chemical Purity:** 99.8%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 65.34, H 6.85, N 16.93; Found: C 65.36, H 6.69, N 17.06  
**Storage Conditions:** Store at -20 °C

| <b>Solubility Data:</b> | <b>Solvent</b> | <b>Solubility (mg/ml)</b> | <b>Solubility (mM)</b> | <b>Remarks</b> |
|-------------------------|----------------|---------------------------|------------------------|----------------|
|                         | Water          | 0.0                       | 0.0                    | Insoluble      |
|                         | 0.1N NaOH (aq) |                           |                        | Not Tested     |
|                         | 0.1N HCl (aq)  | 22.0                      | 66.5                   |                |
|                         | DMSO           | 33.1                      | >100 mM                |                |
|                         | EtOH           |                           |                        | Not Tested     |

**Remarks:**

**QC Date:** 08-03-2018

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**