

# Certificate of Analysis



Product Identification		Chemical Structure
<b>Catalog number</b>	HB8555	
<b>Compound name</b>	Deschloroclozapine	
<b>Chemical name</b>	6-(4-methylpiperazin-1-yl)-11H-benzo[b][1,4]benzodiazepine	
<b>Batch number</b>	E2312-1-1	
<b>Batch molecular formula</b>	C <sub>18</sub> H <sub>20</sub> N <sub>4</sub> ·0.3H <sub>2</sub> O	
<b>Batch molecular weight</b>	297.79	
Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 99.0%
<b>NMR</b>	<sup>1</sup> H NMR in CDCl <sub>3</sub> at 400 MHz consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>TLC</b>	TLC analysis in 25% MeOH/DCM + NH <sub>3</sub> shows one spot under uv	Meets specification: R <sub>f</sub> =0.1
<b>Physical appearance</b>	Yellow to brown solid solid	Meets specification: Yellow solid
<b>Solubility</b>	Soluble in DMSO (100 mM) and in ethanol (50 mM with warming)	Meets specification

Produced by

Signature

Passed by

Signature

Date

23/08/2023

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.