

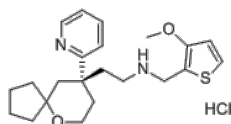
# Certificate of Analysis

<b>Product Name</b>	: Oliceridine hydrochloride
<b>Cat. No.</b>	: PC-61682
<b>CAS No.</b>	: 1401028-24-7
<b>Batch No.</b>	: PC-6168201
<b>Chemical Name</b>	: (R)-N-((3-methoxythiophen-2-yl)methyl)-2-(9-(pyridin-2-yl)-6-oxaspiro[4.5]decan-9-yl)ethanamine hydrochloride

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Weight</b>	: 423.012	
<b>Molecular Formula</b>	: C <sub>22</sub> H <sub>31</sub> ClN <sub>2</sub> O <sub>2</sub> S	
<b>Storage</b>	: Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month

**Chemical Structure :**



## ANALYTICAL DATA

<b>Appearance</b>	: Solid powder
<b><sup>1</sup>H NMR Spectrum</b>	: Consistent with
<b>HPLC</b>	: Consistent with
<b>NP</b>	: Consistent with
<b>Purity (HPLC)</b>	: >98%
<b>Conclusion</b>	: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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