

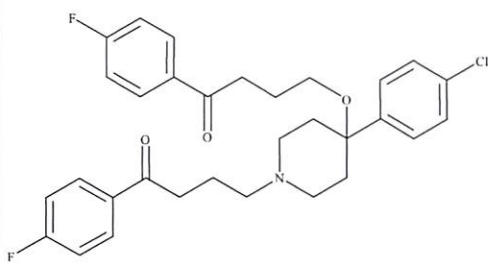
## Certificate of Analysis

Certificate No.: 20240827503



Date: August 27, 2024

Retest date: August 23, 2027

<b>Compound Name:</b> <i>N,O</i> -Fluorophenylbutyryl Haloperidol	
<b>Synonyms:</b>	4-((4-(4-Chlorophenyl)-1-(4-(4-fluorophenyl)-4-oxobutyl)piperidin-4-yl)oxy)-1-(4-fluorophenyl)butan-1-one
<b>TLC Catalogue Number:</b>	H-0123
<b>CAS Number:</b>	2733027-86-4
<b>Molecular Weight:</b>	540.05
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>32</sub> ClF <sub>2</sub> NO <sub>3</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	1934-056A3
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	DMSO, Acetonitrile



Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.5%</b>
<b>Impurity (HPLC)</b>	RT 9.71, 0.32%	
<b>Water Content (KF)</b>	N/A	<b>0.1%</b>
<b>Residual Solvents (NMR)</b>	0.1% methanol and 0.2% dichloromethane	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.1%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		08/28/2024
Approved by:	Quality Assurance		08/28/2024

**Attachments:** HPLC, IR, MS and NMR spectra.