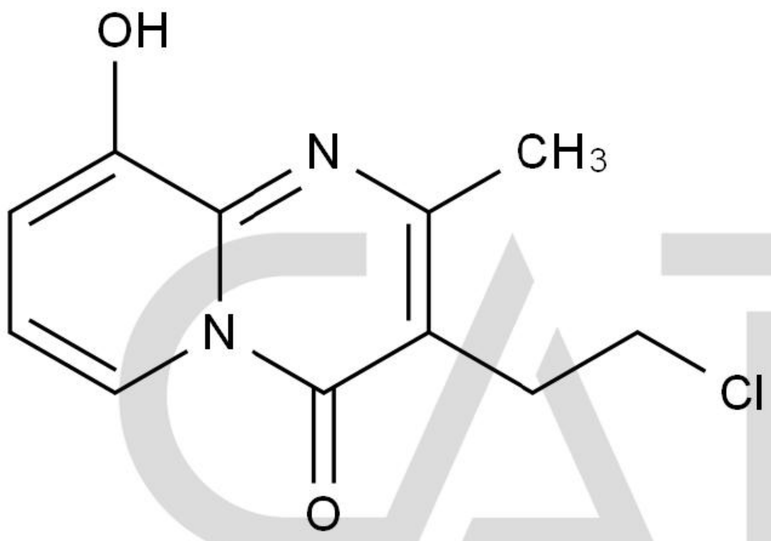
Certificate of Analysis

Reference Material & Standard

Product Name:	Paliperidone Impurity 50	**Catalogue Number:**	C4X-172450
Synonyms:	N/A	**Lot Number:**	1106-RE-0019
CAS Number:	260273-82-3	**Expiry Date:**	Aug 31, 2030
Molecular Formula:	$C_{11}H_{11}ClN_2O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	238.67	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.942%
Water Content	Karl Fischer	0.86%
Residual Solvents	NMR	Not detected in NMR
Assay		99.1%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) /100%*
Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Sep 02, 2026

Reviewed by: Date: Sep 02, 2026

Approved by General Manager: Date: Sep 02, 2026

CATO Research Chemicals Inc.