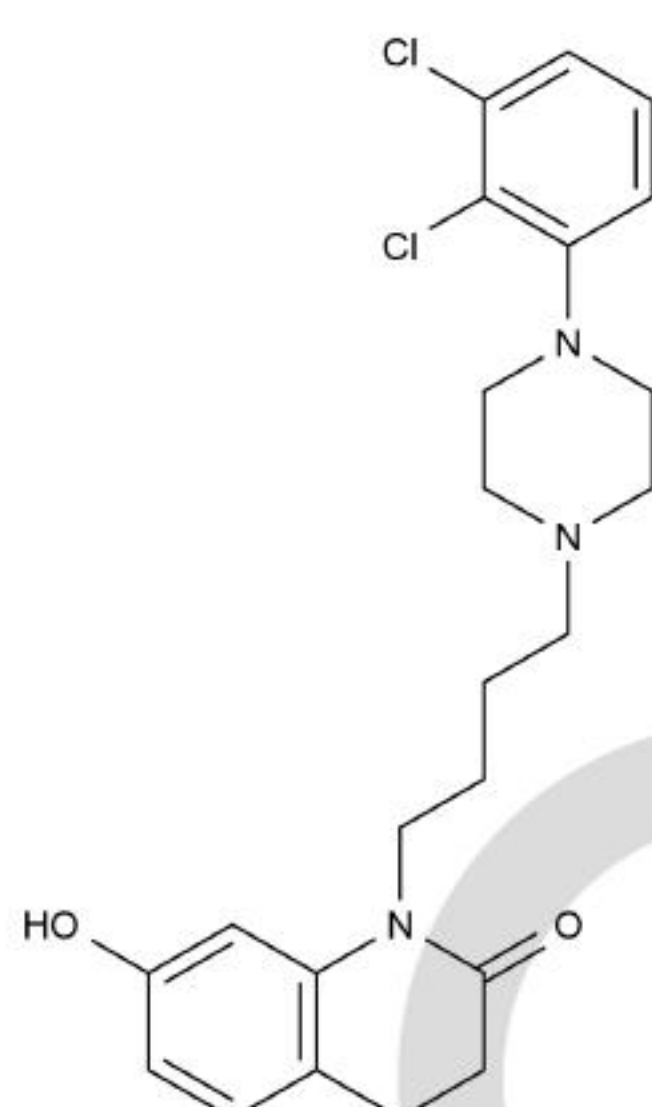


Certificate of Analysis

Reference Material & Standard

Product Name:	Aripiprazole Impurity 57	Catalogue Number:	C4X-100857
Synonyms:	1-{4-[4-(2,3-Dichlorophenyl)-1-piperazinyl]butyl}-7-hydroxy-3,4-dihydro-2(1H)-quinolinone	Lot Number:	0525-RH-0086
CAS Number:	1797983-65-3	Expiry Date:	May 28, 2030
Molecular Formula:	C ₂₃ H ₂₇ Cl ₂ N ₃ O ₂	Storage:	-20°C±5°C Sealed
Molecular Weight:	448.39	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.442%
Residue on Ignition	TGA	0.7209%
Loss on Drying	TGA	0.2766%
Assay	qNMR	98.3%
Assay	Mass Balance	98.5%

Comment:

- The retest date of this product is May 28, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: May 29, 2026

Date: Jun 01, 2026

Date: Jun 01, 2026



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