CERTIFICATE OF ANALYSIS

(Certificate No. KMA015056-01)

Release Date: 01/03/2025 **Re-test Date:** 29/02/2028

Aripiprazole Impurity 4

Identification

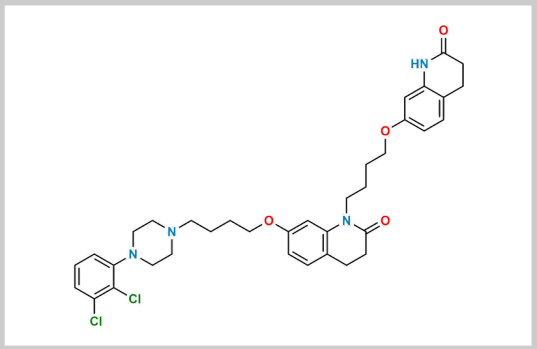
Chemical Name :
2(1H)-Quinolinone, 7-[4-[4-(2,3-dichlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-1-[4-[(1,2,3,4-tetrahydro-2-oxo-7-quinolinyl)oxy]butyl]-; 7-[4-[4-(2,3-Dichlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-1-[4-[(1,2,3,4-tetrahydro-2-oxo-7-quinolinyl)oxy]butyl]-2(1H)-quinolinone;

CAT No. : KMA015056

CAS No. : 1424857-63-5

Molecular Formula : C36H42Cl2N4O4

Molecular Weight : 665.7



Analytical Information

Batch No.	: A015056-091-216	**Solubility**	: ACN : Water (1:1)
Description	: Off White Hygroscopic Solid	**Mass**	: Confirm
HPLC Purity	: 97.40 %	**IR**	: Confirm
Weight Loss By TGA	: 1.07 %	**1H NMR**	: Confirm
% Potency	: 96.36 %	**13C NMR**	: Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 1.07(Weight Loss By TGA)] x [97.40(HPLC Purity)]/100 = 96.36 %
-13C NMR Analysis added on 28.06.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		11/07/2025
Reviewed & Approved By	Quality Control	Jatin Patel		11/07/2025

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA