

# CERTIFICATE OF ANALYSIS

(Certificate No. KMA015056-01)

Release Date: 01/03/2025

Re-test Date: 29/02/2028

## Aripiprazole Impurity 4

### Identification

**Chemical Name :**

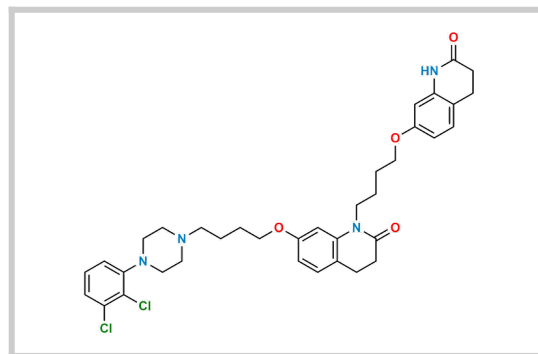
2(1H)-Quinolinone, 7-[4-[4-(2,3-dichlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-1-[4-[(1,2,3,4-tetrahydro-2-oxo-7-quinolinyl)oxy]butyl]-; 7-[4-[4-(2,3-Dichlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-1-[4-[(1,2,3,4-tetrahydro-2-oxo-7-quinolinyl)oxy]butyl]-2(1H)-quinolinone;

CAT No. : KMA015056

CAS No. : 1424857-63-5

Molecular Formula : C<sub>36</sub>H<sub>42</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>

Molecular Weight : 665.7



### Analytical Information

Batch No. : A015056-091-216

Description : Off White Hygroscopic Solid

HPLC Purity : 97.40 %

Weight Loss By TGA : 1.07 %

% Potency : 96.36 %

Solubility : ACN : Water (1:1)

Mass : Confirm

IR : Confirm

<sup>1</sup>H NMR : Confirm

<sup>13</sup>C 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 %  
-<sup>13</sup>C 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, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA