

# CERTIFICATE OF ANALYSIS

(Certificate No. KMV013039-01)

Release Date: 28/02/2025

Re-test Date: 27/02/2028

## Vildagliptin Impurity D

### Identification

**Chemical Name :**

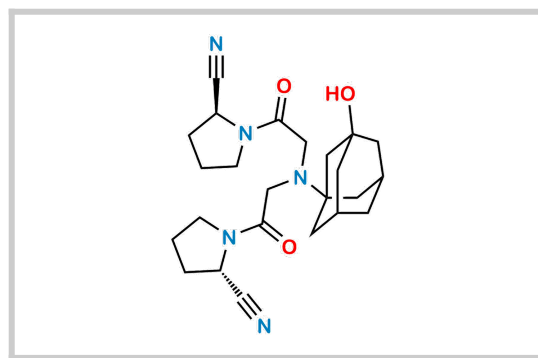
(2S,2'S)-1,1'-(2,2'-(((1r,3R,5R,7S)-3-Hydroxyadamantan-1-yl)azanediyl)bis(acetyl))bis(pyrrolidine-2-carbonitrile)

CAT No. : KMV013039

CAS No. : 1036959-23-5

Molecular Formula : C<sub>24</sub>H<sub>33</sub>N<sub>5</sub>O<sub>3</sub>

Molecular Weight : 439.5



### Analytical Information

Batch No. : V013039-091-236

Description : Off White Solid

HPLC Purity : 99.70 %

Weight Loss By TGA : 0.38 %

% Potency : 99.32 %

Solubility : Acetonitrile

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 - 0.38(Weight Loss By TGA)] x [99.70(HPLC Purity)]/100 = 99.32 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		28/02/2025
Reviewed & Approved By	Quality Control	Jatin Patel		28/02/2025

Attachments : COA, HPLC, MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA