

# CERTIFICATE OF ANALYSIS

(Certificate No. KMV013003-01)

Release Date: 16/04/2026

Re-test Date: 15/04/2029

## N-Nitroso Vildagliptin Carboxylic Acid Impurity

### Identification

**Chemical Name :**

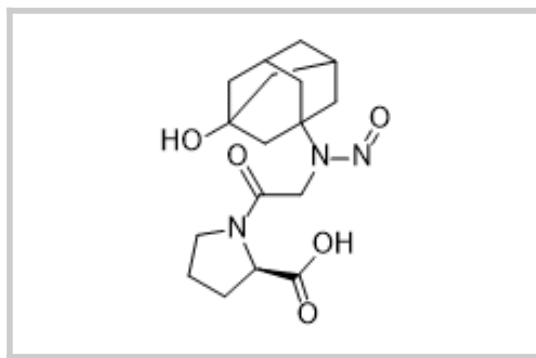
N-((1r,3R,5R,7S)-3-Hydroxyadamantan-1-yl)-N-nitrosoglycyl-L-proline

**CAT No.** : KMV013003

**CAS No.** : Not Available

**Molecular Formula** : C<sub>17</sub>H<sub>25</sub>N<sub>3</sub>O<sub>5</sub>

**Molecular Weight** : 351.40



### Analytical Information

**Batch No.** : VIL-ACID-N-NO-045-095

**Description** : Off White Solid

**HPLC Purity** : 91.03 %

**Weight Loss By TGA** : 2.74 %

**% Potency** : 88.54 %

**Solubility** : ACN

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 2.74(Weight Loss By TGA)] x [91.03(HPLC Purity)]/100 = 88.54 %

Remarks : COA Re-generated on 03.08.2024

-Re-tested on 16.04.2026

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		16/04/2026
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		16/04/2026

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA