

Analysis Date: 08-10-2025

Re-test Date: 08-10-2028

## SAXAGLIPTIN IMPURITY 51

### Identification

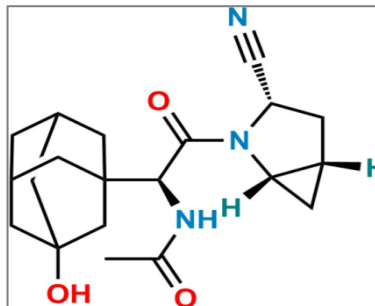
**Chemical Name** : N-((1S)-2-((1S,3S,5S)-3-cyano-2-azabicyclo[3.1.0]hexan-2-yl)-1-(3-hydroxyadamantan-1-yl)-2-oxoethyl)acetamide

**CAT No** : ALL-SAX-93

**CAS No** : N.A.

**Molecular Formula** : C<sub>20</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular Weight** : 357.5



### Analytical Information

<b>Batch No</b>	: ALL-SAX-93	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 96.95%
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 °C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.395%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.673%		

### Additional Information

%Potency = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (0.395+0.673) × 98.00]/100 = 96.95%

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Vipul Khadase Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

**Attachment** : HPLC, Mass, <sup>1</sup>H NMR, TGA.

**Shipping Condition** : All Product are stable to be shipped at room temperature, unless otherwise specified

#### Corporate Office