

Analysis Date: 14-01-2025

Re-test Date: 14-01-2028

## ALOGLIPTIN IMPURITY 41

### Identification

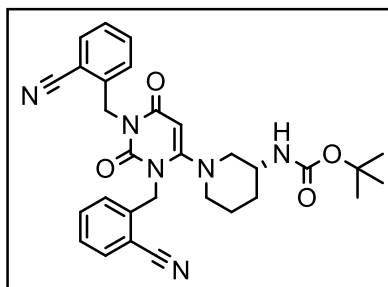
**Chemical Name** : Tert-butyl (R)-(1-(1,3-bis(2-cyanobenzyl)-2,6-dioxo-1,2,3,6-tetrahydropyrimidin-4-yl)piperidin-3-yl)carbamate

**CAT No** : ALL-ALO- 3260

**CAS No** : N.A

**Molecular Formula** : C<sub>30</sub>H<sub>32</sub>N<sub>6</sub>O<sub>4</sub>

**Molecular Weight** : 540.6



### Analytical Information

<b>Batch Code</b>	: ALL-ALE- 3260	<b>HPLC Purity</b>	: 97.93 %
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 96.74 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 <sup>0</sup> C	<b>IR Analysis</b>	: Confirm
<b>Water Content By TGA</b>	: 1.127 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.084 %		

### Additional Information

%Potency = [100 - (Residue % + Water %) × Chromatographic Purity%]/100 =

[100 - (1.127+0.084) × 97.93]/100 = 96.74 %

**Recommendation** : Released

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

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

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

### Corporate Office

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