

Analysis Date: 14-01-2025

Re-test Date: 14-01-2028

## ALOGLIPTIN IMPURITY 10

### Identification

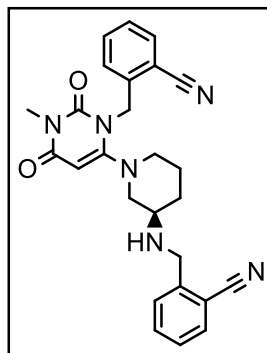
**Chemical Name** : (R)-2-(((1-(3-(2-Cyanobenzyl)-1-methyl-2,6-dioxo-1,2,3,6-tetrahydropyrimidin-4-yl)piperidin-3-yl)amino)methyl)benzonitrile

**CAT No** : ALL-ALO-4288

**CAS No** : 2749424-28-8

**Molecular Formula** : C<sub>26</sub>H<sub>26</sub>N<sub>6</sub>O<sub>2</sub>

**Molecular Weight** : 454.5



### Analytical Information

<b>Batch Code</b>	: ALL-ALE-4288	<b>HPLC Purity</b>	: 97.91%
<b>Solubility</b>	: MeOH: ACN	<b>Potency</b>	: 96.61 %
<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>	: 1.142 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.183 %		

### Additional Information

$$\% \text{Potency} = [100 - (\text{Residue \%} + \text{Water \%}) \times \text{Chromatographic Purity\%}] / 100 =$$

$$[100 - (1.142 + 0.183) \times 97.91] / 100 = 96.61 \%$$

**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