

Analysis Date: 23-12-2025

Re-test Date: 23-12-2028

## ABEMACICLIB IMPURITY DP1

### Identification

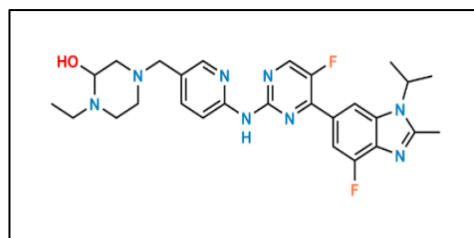
**Chemical Name** : 1-Ethyl-4-((6-((5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazol-6-yl)pyrimidin-2-yl)amino)pyridin-3-yl)methyl)piperazin-2-ol

**CAT No** : ALL-A07553

**CAS No** : N.A.

**Molecular Formula** : C<sub>27</sub>H<sub>32</sub>F<sub>2</sub>N<sub>8</sub>O

**Molecular Weight** : 522.6



### Analytical Information

<b>Batch Code</b>	: ALL-A07553	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 96.57 %
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: -20°C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 1.120 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.421 %		

### Additional Information

**%Potency** = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (1.120 + 0.421) × 98.00]/100 = 96.57 %

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Vipul Khadse 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