

Analysis Date: 24-09-2025

Re-test Date: 24-09-2028

## SITAGLIPTIN IMPURITY 44

### Identification

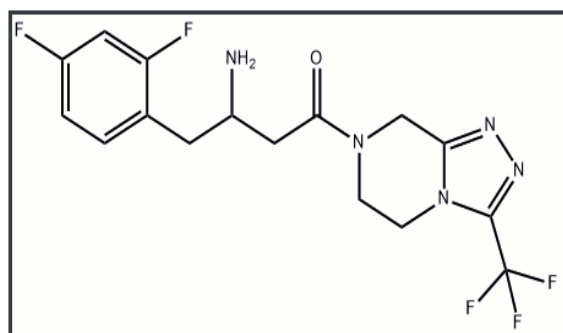
**Chemical Name** : (R)-3-amino-4-(2, 4-difluorophenyl)-1-(3- (trifluoromethyl)-5, 6-dihydro-[1, 2, 4] triazolo [4, 3-a] pyrazin- 7(8H)-yl) butan-1-one

**CAT No** : ALL-S03535

**CAS No** : 1334244-28-8

**Molecular Formula** : C<sub>16</sub>H<sub>16</sub>F<sub>5</sub>N<sub>5</sub>O

**Molecular Weight** : 389.32



### Analytical Information

**Batch Code** : ALL-S03535

**HPLC Purity** : 98.00%

**Solubility** : MeOH: ACN

**Potency** : 96.58%

**Appearance of Product** : Off White Solid

**Mass** : Confirm

**Long Term Storage** : 2-8 0C

**IR Analysis** : Confirm

**Weight Loss By TGA** : 0.223 %

**<sup>1</sup>HNMR** : Confirm

**Residue Of Ignition** : 1.214 %

### Additional Information

$$\% \text{Potency} = [100 \% - (\text{Weight Loss By TGA \%} + \text{Residue Of Ignition \%}) \times \text{Chromatographic Purity\%}] / 100 = [100 - (0.223 + 1.214) \times 98.00] / 100 = 96.58\%$$

**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, IR, TGA

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

#### Corporate Office

Allmpus Laboratories Pvt Ltd 38, Solitaire Industrial Estate, Plot No.TS-1, Near Nandi Palace Hotel, MIDC-Phase 1, Dombivli (E), Mumbai, Maharashtra 421203