

Analysis Date: 24-09-2025

Re-test Date: 24-09-2028

SITAGLIPTIN FP IMPURITY D

Identification

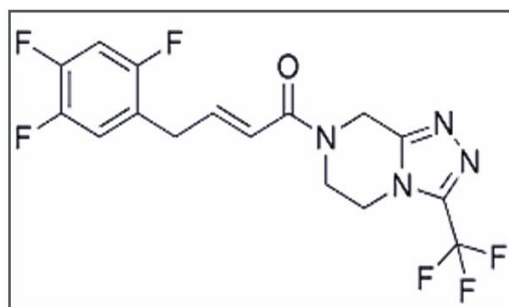
Chemical Name : (2E)-1-[3-(Trifluoromethyl)-5,6-dihydro[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl]-4-(2,4,5-trifluorophenyl)but-2-en-1-one

CAT No : ALL-SIT-2057

CAS No : 1253056-18-6

Molecular Formula : C₁₆H₁₂F₆N₄O

Molecular Weight : 390.28



Analytical Information

Batch Code : ALL-SIT-2057

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 %

¹HNMR : 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, ¹H NMR, IR, TGA

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

Corporate Office

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