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## CERTIFICATE OF ANALYSIS

Analysis Date:

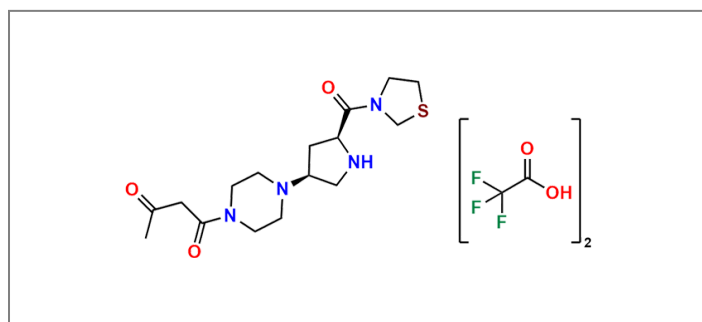
Re-test Date:

**Product Name: Teneligliptin Impurity 21**

### Identification:

Chemical Name: 1-(4-((3S,5S)-5-(thiazolidine-3-carbonyl)pyrrolidin-3-yl)piperazin-1-yl)butane-1,3-dione 2,2,2-trifluoroacetic acid

Synonyms : Di-Trifluoroacetate  
CAS Number : NA  
CAT Number : CP-T16029  
Molecular Formula : C<sub>16</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>S : 2(C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>)  
Molecular Weight : 354.47 : 2(114.02)



### Analytical Information:

| Sr. No. | Test           | Result                   |
|---------|----------------|--------------------------|
| 1)      | Description    | Solid                    |
| 2)      | Solubility     | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS   | Confirm to structure     |
| 4)      | Purity By HPLC | >95%                     |
| 5)      | H1NMR          | Confirm to structure     |



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.