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### CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Vilazodone Impurity 31**

#### Identification:

Chemical Name: 5-(4-((3-(4-(4-(2-Carbamoylbenzofuran-5-yl)piperazin-1-yl)butyl)-5-cyano-1H-indol-1-yl)methyl)piperazin-1-yl)benzofuran-2-carboxamide

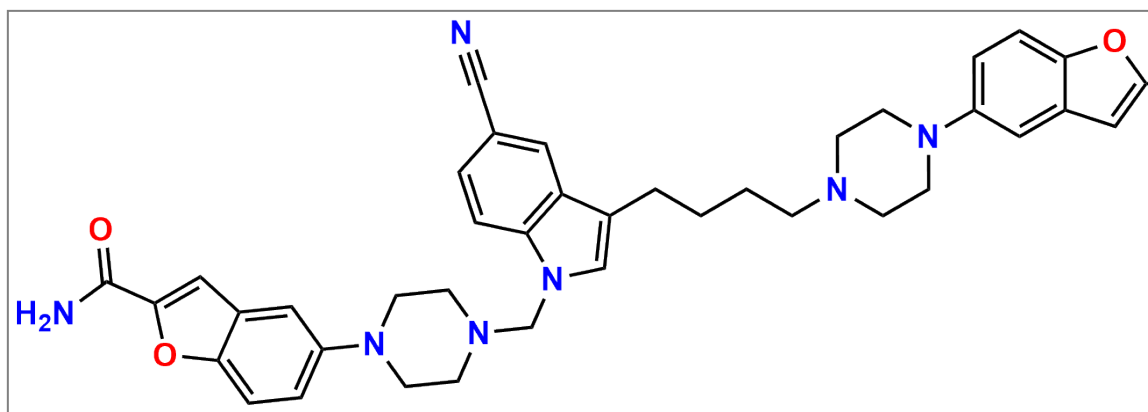
Synonyms : NA

CAS : 1640353-02-  
Number : 1

CAT : CP-V18038  
Number

Molecular : C<sub>40</sub>H<sub>42</sub>N<sub>8</sub>O<sub>4</sub>  
Formula

Molecular : 698.83  
Weight



#### 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.