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## CERTIFICATE OF ANALYSIS

Analysis Date:

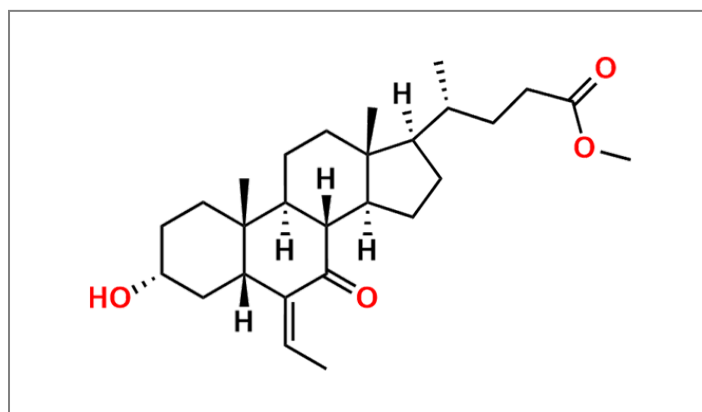
Re-test Date:

**Product Name: Obeticholic Acid Impurity 11**

### Identification:

Chemical Name: Methyl (R)-4-((3R,5R,8S,9S,10R,13R,14S,17R)-6-ethylidene-3-hydroxy-10,13-dimethyl-7-oxohexadecahydro-1H-cyclopenta[a]phenanthren-17-yl)pentanoate

Synonyms : NA  
CAS Number : 863239-59-2  
CAT Number : CP-O39022  
Molecular Formula : C<sub>27</sub>H<sub>42</sub>O<sub>4</sub>  
Molecular Weight : 430.63



### 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	>98%
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.