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## CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Ketorolac EP Impurity E**

### Identification:

Chemical Name: (1R)-5-Benzoyl-N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-2,3-dihydro-1H-pyrrolizine-1-carboxamide (as per EP)

Synonyms : Ketorolac USP Related  
Compound A ; Ketorolac Tris  
Amide Impurity

CAS Number : 167105-80-8

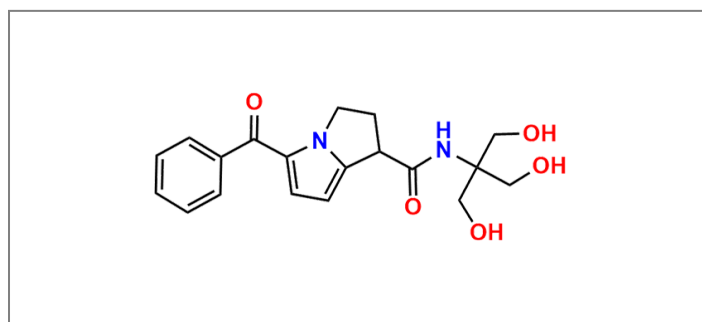
CAT Number : CP-K4005

Molecular Formula : C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Weight : 358.39

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### 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)	<sup>1</sup> H NMR	Confirm to structure
6)	IR	Confirm to Structure
7)	Weight loss by TGA	-
8)	Potency by TGA	-

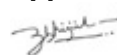


**Prepared and Reviewed By**



Mr. Shubham Bondre  
(Quality Control)

**Approved By**



Mr. Abhijit Kale  
(Quality Assurance)

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