

# CERTIFICATE OF ANALYSIS

(Certificate No. KMR006021-01)

Release Date: 12/10/2023

Re-test Date: 11/10/2026

## Ritonavir Impurity F

### Identification

**Chemical Name :**

Thiazol-5-yl-methyl [(1S,2S,4S)-1-benzyl-4-[[[(2S)-1-benzyl-2-hydroxy-4-[(4S)-4-(1-methylethyl)-2,5-dioxoimidazolidin-1-yl]-5-phenylpentyl]carbamate (as per EP); Thiazol-5-ylmethyl (2S,3S,5S)-3-hydroxy-5-[(S)-4-isopropyl-2,5-dioxoimidazolidin-1-yl]-1,6-diphenylhexan-2-ylcarbamate (as per USP)

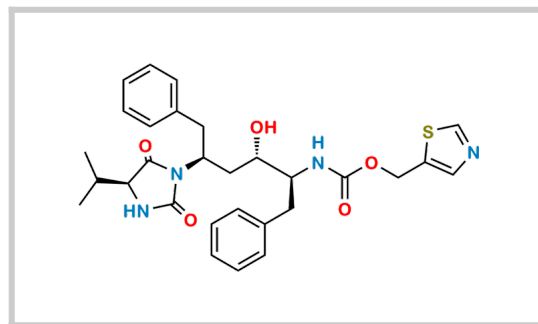
**Alt. Name** : Hydantoin Amino Alcohol Ritonavir (USP)

**CAT No.** : KMR006021

**CAS No.** : 1010809-61-6

**Molecular Formula** : C<sub>29</sub>H<sub>34</sub>N<sub>4</sub>O<sub>5</sub>S

**Molecular Weight** : 550.7



### Analytical Information

**Batch No.** : RIT-EP-IMP-F-045-297

**Description** : Off White Solid

**HPLC Purity** : 94.27 %

**Weight Loss By TGA** : 0.84 %

**% Potency** : 93.48 %

**Solubility** : Acetonitrile

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.84(Weight Loss By TGA)] x [94.27(HPLC Purity)]/100 = 93.48 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		10/04/2025
Reviewed & Approved By	Quality Control	Jatin Patel		10/04/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA