

# CERTIFICATE OF ANALYSIS

(Certificate No. KMH002101-03)

Release Date: 11/02/2026

Re-test Date: 10/02/2029

## Hydrocortisone Aldehyde Impurity (Z-isomer)

### Identification

**Chemical Name :**  
(11,17Z)-11,20-Dihydroxy-3-oxo-pregna-4,17(20)-dien-21-al

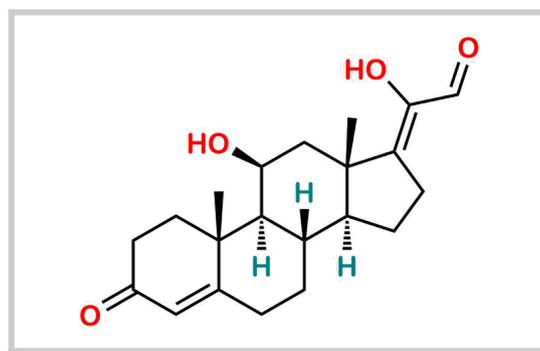
**Alt. Name :** (Z)-17-deoxyaldehyde derivative

**CAT No. :** KMH002101

**CAS No. :** 105562-13-8

**Molecular Formula :** C<sub>21</sub>H<sub>28</sub>O<sub>4</sub>

**Molecular Weight :** 344.5



### Analytical Information

**Batch No. :** H002101-114-143

**Description :** White Solid

**HPLC Purity :** 99.86 %

**Weight Loss By TGA :** 0.07 %

**% Potency :** 99.79 %

**Solubility :** ACN : Water

**Mass :** Confirm

**IR :** Confirm

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

**<sup>13</sup>C NMR :** Confirm

### Additional Information

**Long Term Storage :** Store at -20 deg. C for long term storage

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

**% Potency =** [100 - 0.07(Weight Loss By TGA)] x [99.86(HPLC Purity)]/100 = 99.79 %

**Recommendation :** Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		13/02/2026
Reviewed & Approved By	Quality Control	Jatin Patel		13/02/2026

**Attachments :** COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA