CERTIFICATE OF ANALYSIS

(Certificate No. KMI006004-01)

Release Date: 17/11/2025 **Re-test Date:** 16/11/2028

IVACAFTOR ACID IMPURITY

Identification

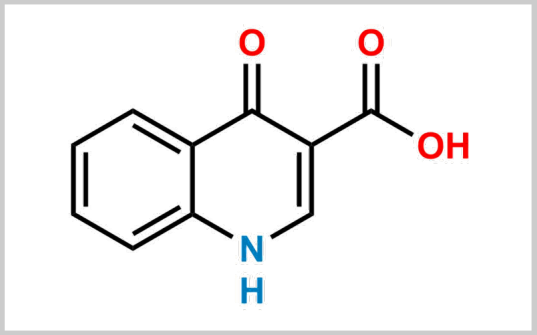
Chemical Name :
4-Oxo-1,4-dihydroquinoline-3-carboxylic acid

CAT No. : KMI006004

CAS No. : 13721-01-2

Molecular Formula : C10H7NO3

Molecular Weight : 189.2



Analytical Information

Batch No.	: IVAC-ACID-030-277	**Solubility**	: Acetonitrile
Description	: Off White Solid	**Mass**	: Confirm
HPLC Purity	: 98.30 %	**IR**	: Confirm
Weight Loss By TGA	: 0.49 %	**1H NMR**	: Confirm
% Potency	: 97.82 %		

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 - 0.49(Weight Loss By TGA)] x [98.30(HPLC Purity)]/100 = 97.82 %
-Re-tested on 17.11.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		19/11/2025
Reviewed & Approved By	Quality Control	Jatin Patel		19/11/2025

Attachments : COA, HPLC, MASS, 1HNMR, IR and TGA