CERTIFICATE OF ANALYSIS

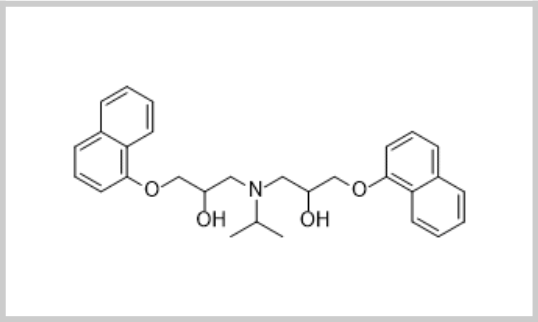
(Certificate No. KMP002019-03)

Release Date: 31/10/2026 **Re-test Date:** 30/10/2029

PROPRANOLOL DIMER

Identification

Chemical Name :
3,3'-(isopropylazanediyl)bis(1-(naphthalen-1-yloxy)propan-2-ol)



Alt. Name	: Propranolol Dimer
CAT No.	: KMP002019
CAS No.	: 2172495-51-9 (HCl salt) ; 83314-78-7 (free base)
Molecular Formula	: C29H33NO4
Molecular Weight	: 459.58

Analytical Information

Batch No.	: P002019-136-325	**Solubility**	: Acetonitrile
Description	: Brown Solid	**Mass**	: Confirm
HPLC Purity	: 96.27 %	**IR**	: Confirm
Weight Loss By TGA	: 0.92 %	**1H NMR**	: Confirm
% Potency	: 95.38 %		

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 - 0.92(Weight Loss By TGA)] x [96.27(HPLC Purity)]/100 = 95.38 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		31/10/2026
Reviewed & Approved By	Quality Control	Jatin Patel		31/10/2026

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