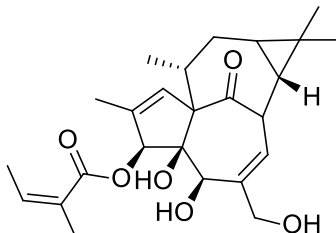


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
201545	Ingenol Mebutate	TZC60711

Chemical name	
(Z)-(1aS,5R,5aS,6S,9R)-5,5a-dihydroxy-4-(hydroxymethyl)-1,1,7,9-tetramethyl-11-oxo-1a,2,5,5a,6,9,10,10a-octahydro-1H-2,8a-methanocyclopenta[a]cyclopropa[e][10]annulen-6-yl 2-methylbut-2-enoate	
Synonyms	
PEP005; PEP-005; PEP 005; ingenol-3-angelate, Ingenol mebutate; trade name Picato	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 201545 Name: Ingenol Mebutate CAS#: 75567-37-2 Lot#: TZC60711 Chemical Formula: C ₂₅ H ₃₄ O ₆ Exact Mass: 430.23554 Molecular Weight: 430.53

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>99.0%
Solubility	Soluble in CDCl ₃ .
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE