

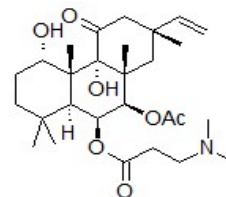
Certificate of Analysis



Product Identification

Catalog number HB2932
Compound name NKH447
Chemical name N,N-Dimethyl-(3R,4aR,5S,6aS,10S,10aR,10bS)-5-(acetyloxy)-3-ethenyldodecahydro-10,10b-dihydroxy-3,4a,7,7,10a-pentamethyl-1-oxo-1H-naphtho[2,1-b]pyran-6-yl ester β-alanine hydrochloride
Batch number E1427-9-5
Batch molecular formula C₂₇H₄₃NO₈·HCl
Batch molecular weight 546.10

Chemical Structure



Method	QC requirement	QC Result
HPLC	HPLC shows more than 98% purity by RP analysis	Meets specification: >98% by HPLC
NMR	300MHz ¹ H spectrum in D2O confirms structure and shows <1% of any other impurity	Meets specification
Mass spectrum	Electrospray positive analysis shows mass ion corresponding to [M+H] ⁺	Meets specification: Mass ion: 510.3
Microanalysis	Elemental analysis is within 0.4 of expected result for each element tested	Meets specification: analysis fits for batch molecular formula
TLC	Analysis using a solvent ratio of 9:1 CHCl ₃ / MeOH shows a single spot	Meets specification: R _f =0.25
Physical appearance	White to cream solid	Meets specification: white Solid
Solubility	Soluble in water (40 mM), ethanol (15mM), DMSO (100mM)	Meets specification

Produced by Huw Davies

Signature

Passed by Steve Roome

Signature

Date

25-11-20