

# Certificate of Analysis

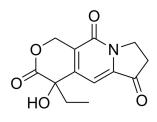
## (rac)-Exatecan Intermediate 1

Cat. No.:	HY-42487A
CAS No.:	102978-40-5
Batch No.:	25715
Chemical Name:	1H-Pyrano[3,4-f]indolizine-3,6,10(4H)-trione, 4-ethyl-7,8-dihydro-4-hydroxy-

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{13}H_{13}NO_5$		
Molecular Weight:	263.25		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

#### **Chemical Structure:**



### ANALYTICAL DATA

Appearance:	White to light yellow (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
LCMS:	Consistent with structure
Purity (LCMS):	99.84%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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