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## Certificate of Analysis

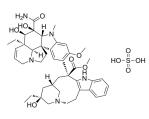
### Vindesine (sulfate)

Cat. No.:	HY-129071
CAS No.:	59917-39-4
Batch No.:	152237
Chemical Name:	Vincaleukoblastine, 3-(aminocarbonyl)-O4-deacetyl-3-de(methoxycarbonyl)-, sulfate (1:1)

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>43</sub> H <sub>57</sub> N <sub>5</sub> O <sub>11</sub> S
Molecular Weight:	852.00
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

#### **Chemical Structure:**



#### **ANALYTICAL DATA**

Appearance:	White to off-white (Solid)
Purity:	99.40%
Elemental analysis X valueH2O(moles)(0.0 - 4.0):	4.0
Specific Rotation:	15.8 °
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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA