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# Certificate of Analysis

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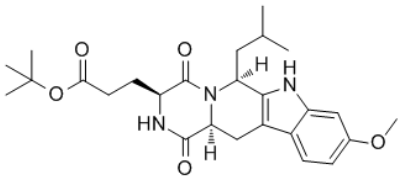
**Product Name** : Ko-143
**Cat. No.** : PC-42054
**CAS No.** : 461054-93-3
**Batch No.** : PC-4205401
**Chemical Name** : Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanoic acid, 1,2,3,4,6,7,12,12a-octahydro-9-methoxy-6-(2-methylpropyl)-1,4-dioxo-, 1,1-dimethylethyl ester, (3S,6S,12aS)-

## PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Weight** : 469.5732
**Molecular Formula** : $C_{26}H_{35}N_3O_5$
**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** : Solid powder
**$^1$H NMR Spectrum** : Consistent with
**HPLC** : Consistent with
**NP** : Consistent with
**Purity (HPLC)** : >98%
**Conclusion** : The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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