

## **Certificate of Analysis**

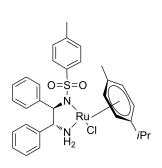
## RuCl(p-cymene)[(R,R)-Ts-DPEN]

| Cat. No.:      | HY-W001069                                                                                |  |
|----------------|-------------------------------------------------------------------------------------------|--|
| CAS No.:       | 192139-92-7                                                                               |  |
| Batch No.:     | 84861                                                                                     |  |
| Chemical Name: | Ruthenium, [N-[(1R,2R)-2-(amino-кN)-1,2-diphenylethyl]-4-methylbenzenesulfonamidato-кN]ch |  |
|                | loro[(1,2,3,4,5,6-ŋ)-1-methyl-4-(1-methylethyl)benzene]-                                  |  |

## PHYSICAL AND CHEMICAL PROPERTIES

| Molecular Formula: | $C_{31}H_{35}CIN_2O_2RuS$                                              |
|--------------------|------------------------------------------------------------------------|
| Molecular Weight:  | 636.21                                                                 |
| Storage:           | -20°C, stored under nitrogen                                           |
|                    | * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen) |

**Chemical Structure:** 



## **ANALYTICAL DATA**

| Appearance: | Yellow to brown (Solid)                                                 |
|-------------|-------------------------------------------------------------------------|
| Purity:     | ≥98.0%                                                                  |
| Ru:         | >15.57                                                                  |
| 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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