

Catalog	Unit
TBI2146-50MG	50 mg
TBI2146-250MG	250 mg

### Product Details

**Formal Name:** (S)-4,11-Diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]-indolizino[1,2-b]quinolin-9-yl-[1,4'-bipiperidine]-1'-carboxylate hydrochloride

**Molecular Formula:** C<sub>33</sub>H<sub>38</sub>N<sub>4</sub>O<sub>6</sub> · HCl · 3H<sub>2</sub>O

**Formula Weight:** 586.69 · 36.46 · 54.05

**CAS Number:** 100286-90-6

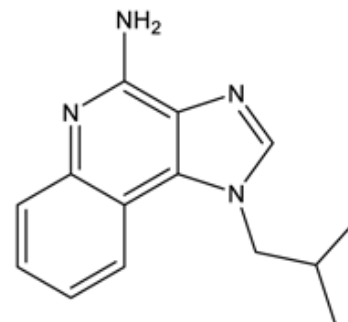
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 50 mg/ml), in Water (up to 4 mg/ml) or in Ethanol (up to 4 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Topoisomerase I inhibitor

### Functions

Irinotecan is a semi-synthetic derivative of camptothecin that is an FDA approved anticancer drug. It is a prodrug that is converted by tissue esterases to 7-ethyl-10-hydroxycamptothecin (SN-38), a potent inhibitor of DNA topoisomerase I. Although irinotecan is also a topoisomerase inhibitor, SN-38 is approximately 1000 times as potent in purified enzyme studies. In vitro cytotoxicity assays show much greater variability in potency between the two (2-2000 fold).

### Application Procedures

First dissolved in DMSO (up to 50 mg/ml), in Water (up to 4 mg/ml) or in Ethanol (up to 4 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, ethanol or distilled water may be stored at -20° for up to 3 months.

**For research use only.**