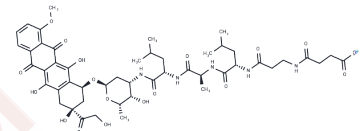


## DTS-201 sodium

## Chemical Properties

CAS No. :	372491-73-1
Formula:	C <sub>49</sub> H <sub>64</sub> N <sub>5</sub> NaO <sub>18</sub>
Molecular Weight:	1034.05
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	DTS-201 sodium (CPI-0004Na) is a peptide prodrug of Doxorubicin. It contains a tetrapeptide segment that is hydrolyzed by endopeptidases in the tumor microenvironment to produce metabolites, which are then converted into active Doxorubicin upon cellular entry. DTS-201 has demonstrated antitumor efficacy in xenograft models of prostate, breast, and lung cancers.
Targets(IC50)	Aminopeptidase
In vivo	DTS-201 sodium shows good tolerance in mice (40-100 mg/kg), rats (30-70 mg/kg), and dogs (4-8 mg/kg) when administered intravenously over 15 minutes. On days 1 and 22, a single intravenous injection of DTS-201 sodium is well tolerated in mice (50 mg/kg, MTD) and rats (40 mg/kg, MTD). Administered weekly for seven weeks at doses of 3.2, 12.8, and 25.6 mg/kg, DTS-201 sodium exhibits significantly less cardiac toxicity than Doxorubicin, maintaining an average total score of $\leq 0.3$ , regardless of the dose. In xenograft mice models NCI-H1299, PC-3, and MDA-MB-231, intravenous DTS-201 sodium (40-80 mg/kg) demonstrates a better therapeutic index compared to free Doxorubicin.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9671 mL	4.8354 mL	9.6707 mL
5 mM	0.1934 mL	0.9671 mL	1.9341 mL
10 mM	0.0967 mL	0.4835 mL	0.9671 mL
50 mM	0.0193 mL	0.0967 mL	0.1934 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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