

Catalog	Unit
TBI2429-10MG	10 mg
TBI2429-50MG	50 mg

### Product Details

**Formal Name:** 8S-acetyl-10S-[(3-amino-2,3,6-trideoxy- $\alpha$ -L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-5,12-naphthacenedione, monohydrochloride

**Alternate Names:** Daunomycin; Rubidomycin; RP-13057

**Molecular Formula:** C<sub>27</sub>H<sub>39</sub>NO<sub>10</sub>·HCl

**Formula Weight:** 564

**CAS Number:** 23541-50-6

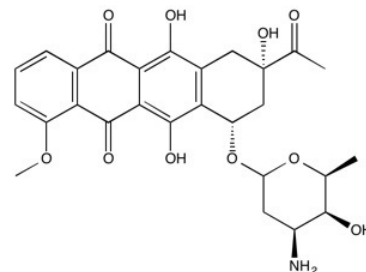
**Purity:** >95%

**Formulation:** Powder

**Solubility:** Soluble in Water (up to 25 mg/ml).

**Storage:** -20°C

**Stability:**  $\geq$  1 year.



### Applications

DNA damaging agent; anticancer agent

### Functions

Antitumor antibiotic used in the treatment of acute myeloid leukemias. Induces DNA damage by intercalation. Induces apoptosis in a variety of cell lines. Inhibition of autophagy with chloroquine enhances daunorubicin-induced apoptosis in K562 cells. Cell permeable.

### Application Procedures

First dissolved in Water (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in distilled water may be stored at -20°C for up to 3 months.

**For research use only.**