**ON-013100**

**Cat. No.:** HY-112822  
**CAS No.:** 865783-95-5  
**Molecular Formula:** C₁₉H₂₂O₇S  
**Molecular Weight:** 394.44  
**Target:** CDK  
**Pathway:** Cell Cycle/DNA Damage  
**Storage:**  
- Powder  
  -20°C  3 years  
  4°C  2 years  
- In solvent  
  -80°C  6 months  
  -20°C  1 month

### BIOLOGICAL ACTIVITY

**Description**  
ON-013100, an antineoplastic drug, acts a mitotic inhibitor that could inhibit Cyclin D1 expression.

**IC₅₀ & Target**  
Cdk4/cyclin D1

**In Vitro**  
ON-013100 induces apoptosis, and has activity against most human cancer cell lines in vitro. ON013100 significantly alters the cell cycle profile, dramatically increasing the number of cells in G2/M phase. Treatment of the cells with even 0.1 μM of ON013100 results in an arrest of the G2/M phase of the cell cycle[2]. ON 013100 inhibits the proliferation of MCL (JEKO-1 and MINO), breast (MCF7 and MDA-MB-231), gastric (AGS), and esophageal (OE19, OE33, and FLO-1) cancer cell lines at a nanomolar concentration (ON 013100 GI₅₀=6.7-11.2 nM)[3].

### REFERENCES


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**Caution:** Product has not been fully validated for medical applications. For research use only.

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