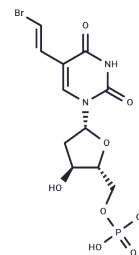


## Brivudine monophosphate

## Chemical Properties

CAS No. :	80860-82-8
Formula:	C <sub>11</sub> H <sub>14</sub> BrN <sub>2</sub> O <sub>8</sub> P
Molecular Weight:	413.12
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Brivudine monophosphate is a phosphate ester of Brivudine. Brivudine, also known as bromovinyl-deoxyuridine, is a uridine derivative and nucleoside analog with pro-apoptotic and chemosensitizing properties. In vitro, bromovinyl-deoxyuridine (BVDU) has been shown to downregulate the multifunctional DNA repair enzyme APEX nuclease 1, resulting in the inhibition of DNA repair and the induction of apoptosis. In addition, this agent may inhibit the expression of STAT3 (signal transducer and activator of transcription 3), which may result in the downregulation of vascular endothelial growth factor (VEGF). BVDU has also been found to inhibit the upregulation of chemoresistance genes (Mdr1 and DHFR) during chemotherapy.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4206 mL	12.103 mL	24.206 mL
5 mM	0.4841 mL	2.4206 mL	4.8412 mL
10 mM	0.2421 mL	1.2103 mL	2.4206 mL
50 mM	0.0484 mL	0.2421 mL	0.4841 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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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481