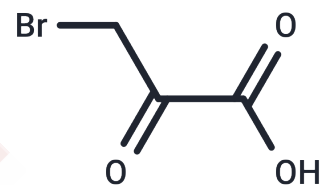


## 3-Bromopyruvic acid

## Chemical Properties

CAS No. :	1113-59-3
Formula:	C <sub>3</sub> H <sub>3</sub> BrO <sub>3</sub>
Molecular Weight:	166.96
Storage:	Store at low temperature 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	3-Bromopyruvic acid (Hexokinase II Inhibitor II, 3-BP) is a hexokinase II inhibitor with $K_i$ of 2.4 mM for glycolysis/hexokinase inhibition. It is inhibitor of tumour cell energy metabolism and chemopotentiator of platinum drugs.
Targets(IC50)	Apoptosis,Hexokinase,Autophagy

## Solubility Information

Solubility	DMSO: 122.5 mg/mL (733.71 mM) H <sub>2</sub> O: 32 mg/mL (191.66 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (11.98 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9895 mL	29.9473 mL	59.8946 mL
5 mM	1.1979 mL	5.9895 mL	11.9789 mL
10 mM	0.5989 mL	2.9947 mL	5.9895 mL
50 mM	0.1198 mL	0.5989 mL	1.1979 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.

Reference

Leng X , Peng J , Yu X , et al. 3-Bromopyruvic Acid, A Hexokinase II Inhibitor, is an Effective Antitumor Agent on the Hepatoma Cells : in vitro and in vivo Findings[J]. Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry - Anti-Cancer Agents), 2014, 14(5):-.

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