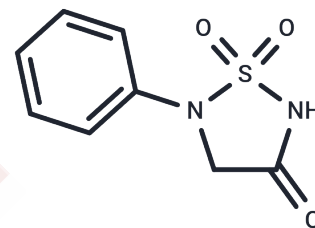


## PTP1B-IN-1

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 612530-44-6   |
| Formula:          | C <sub>8</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S   |
| Molecular Weight: | 212.23  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|                            |   |
|----------------------------|---|
| Description                | PTP1B-IN-1 (PTP1B inhibitor) is a potent inhibitor of protein tyrosine phosphatase 1B (PTP1B) (IC <sub>50</sub> : 1.6 mM) |
| Targets(IC <sub>50</sub> ) | NF-κB, Phosphatase  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 38 mg/mL (179.05 mM), Sonication is recommended.<br>(< 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 (9.42 mM), Sonication is recommended.<br><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  | 4.7119 mL | 23.5593 mL | 47.1187 mL |
| 5 mM  | 0.9424 mL | 4.7119 mL  | 9.4237 mL  |
| 10 mM | 0.4712 mL | 2.3559 mL  | 4.7119 mL  |
| 50 mM | 0.0942 mL | 0.4712 mL  | 0.9424 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

Wang Y , Yan F , Ye Q , et al. PTP1B inhibitor promotes endothelial cell motility by activating the DOCK180/Rac1 pathway[J]. Scientific Reports, 2016, 6:24111.

Black E , Breed J , Breeze A L , et al. Structure-Based Design of Protein Tyrosine Phosphatase-1B Inhibitors[J]. Cheminform, 2005, 15(10):2503-2507.

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