

PTP1B/AKR1B1-IN-2

## Chemical Properties

CAS No. :

Formula: C<sub>23</sub>H<sub>23</sub>N<sub>4</sub>O<sub>5</sub>S<sub>2</sub>

Molecular Weight: 441.56

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	PTP1B/AKR1B1-IN-2 (Compound 7f) is a potent inhibitor targeting both PTP1B and AKR1B1 with IC <sub>50</sub> values of 3.2 and 2.1 μM, respectively, and K <sub>i</sub> values of 4.0 and 0.9 μM. This compound acts as an insulin mimetic and enhances glucose uptake in murine C2C12 myoblasts, making it useful for Type 2 diabetes mellitus (T2DM) research [1].
Targets(IC <sub>50</sub> )	Reductase,Phosphatase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2647 mL	11.3235 mL	22.647 mL
5 mM	0.4529 mL	2.2647 mL	4.5294 mL
10 mM	0.2265 mL	1.1323 mL	2.2647 mL
50 mM	0.0453 mL	0.2265 mL	0.4529 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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