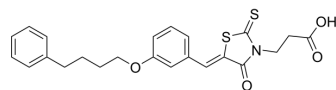


## PTP1B/AKR1B1-IN-2

Cat. No.:	HY-149255
Molecular Formula:	C <sub>23</sub> H <sub>23</sub> NO <sub>4</sub> S <sub>2</sub>
Molecular Weight:	441.56
Target:	Phosphatase; Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

PTP1B/AKR1B1-IN-2 (Compound 7f) is a dual PTP1B/AKR1B1 inhibitor (IC<sub>50</sub>s: 3.2 and 2.1 μM, K<sub>i</sub>s: 4.0 and 0.9 μM). PTP1B/AKR1B1-IN-2 is an insulin-mimetic agent. PTP1B/AKR1B1-IN-2 improves glucose uptake in murine C2C12 myoblasts. PTP1B/AKR1B1-IN-2 can be used for research of Type 2 diabetes mellitus (T2DM)<sup>[1]</sup>.

### REFERENCES

[1]. Maccari R, et al. Designed multiple ligands for the treatment of type 2 diabetes mellitus and its complications: Discovery of (5-arylidene-4-oxo-2-thioxothiazolidin-3-yl)alkanoic acids active as novel dual-targeted PTP1B/AKR1B1 inhibitors. *Eur J Med Chem.* 2023 Apr 5;252:115270.

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

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