



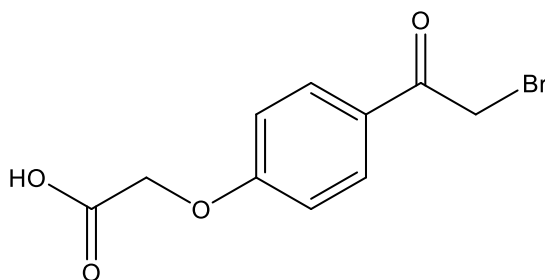
Catalog # 10-1586

PTP Inhibitor III

CAS# 29936-81-0

2-(4-(2-Bromoacetyl)phenoxy)acetic acid

Lot # S106046



Inhibits a broad range of protein tyrosine phosphatases (PTPs). Binds covalently to the active site of the enzyme.¹⁻² Blocks SHP1-mediated dephosphorylation of TRPV1 in dorsal root ganglion neurons aggravating CFA-induced inflammatory pain.³

- 1) Kanda *et al.* (2006), *Glutaredoxin modulates platelet-derived growth factor-dependent cell signaling by regulating the redox status of low molecular weight protein-tyrosine phosphatase*; J. Biol. Chem., **281** 28518
- 2) Popov *et al.* (2009), *Vascular PTPs: current developments and challenges for exploitation in Type 2 diabetes-associated vascular dysfunction*; Biochem. Biophys. Res. Commun., **389** 1
- 3) Xiao *et al.* (2015), *Shp-1 dephosphorylates TRPV1 in dorsal root ganglion neurons and alleviates CFA-induced inflammatory pain in rats*; Pain., **156** 597

PHYSICAL DATA

| | |
|------------------------|--|
| Molecular Weight: | 273.08 |
| Molecular Formula: | C ₁₀ H ₉ BrO ₄ |
| Purity: | 90% by HPLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 25 mg/ml) |
| Physical Description: | White solid |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 week. |

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