

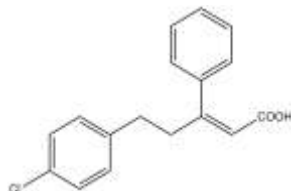
## PS48

**ALTERNATE NAME:** (2Z)-5-(4-Chlorophenyl)-3-phenyl-2-pentenoic acid

**CATALOG #:** 1869-5, 25, 100

**AMOUNT:** 5 mg, 25 mg, 100 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>17</sub>H<sub>15</sub>ClO<sub>2</sub>

**MOLECULAR WEIGHT:** 286.75

**CAS NUMBER:** 1180676-32-7

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO (100 mM) or EtOH (50 mM)

**PURITY:** ≥95% by HPLC

**STORAGE:** Store at -20 °C

**DESCRIPTION:** An allosteric phosphoinositide-dependent protein kinase-1 (PDK1) activator ( $K_d = 10.3 \mu\text{M}$ ). Binds exclusively to the PIF-binding pocket of PDK1, distinct from the ATP binding site. It has recently been found that a combination of PS48, sodium butyrate (Cat. No. 1609-1000), a histone deacetylase inhibitor and the gene Oct-4, could enhance the reprogramming efficiency of keratinocytes isolated from human skin or hair follicles over 25-fold.

**REFERENCE:** Zhu, S., *et al.* (2010). *Cell Stem Cell* **7**, 651-655.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**

- (+)-BAY K 8644 (Cat. No. 1682-5)
- 5-Azacytidine (Cat. No. 1854-50, 250)
- 8-Br-cAMP (Cat. No. 1837-5, 25)
- BIX 01294 (Cat. No. 1678-5, 25)
- RG 108 (Cat. No. 1679-10, 30)
- Sodium Butyrate (Cat. No. 1609-1000)
- Thiazovivin (Cat. No. 1681-1, 5)
- EZSolution™ Thiazovivin (Cat. No. 1736-1)
- Tranlylcypromine Hemisulfate (Cat. No. 1816-25, 100)
- Valproic Acid, Sodium Salt (Cat. No. 1647-200)