

Cat No. 16-M34

PS48

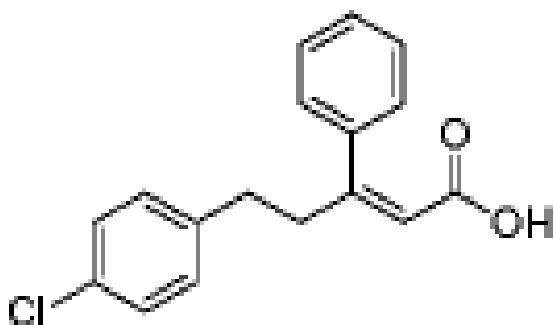
5 mg



For research purposes only

PS48 is an allosteric small molecule activator of phosphoinositide-dependent protein kinase 1 (PDK1) that binds to the HM/PIF binding pocket rather than the ATP-binding site. PS48 is one of the only allosteric compounds that targets a regulatory binding site on a protein kinase catalytic domain that is not adjacent to or overlaps with the ATP binding site. PS48 has been shown to enhance reprogramming of neonatal human epidermal keratinocytes (NHEKs).

## TECHNICAL INFORMATION



**Other Names:** 5-(4-Chloro-phenyl)-3-phenyl-pent-2-enoic acid

**Chemical Formula:** C<sub>17</sub>H<sub>15</sub>ClO<sub>2</sub>

**CAS Number:** 1180678-32-7

**Molecular Weight:** 286.75

**Purity:** ≥98% by HPLC

**Appearance:** Off White Solid

**Solubility:** DMSO

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO >20mg/ml. Note, for most cells, the maximum tolerance to DMSO is <0.5%.

## REFERENCES

1. Zhu et al. (2010) Reprogramming of Human Primary Somatic Cells by Oct4 and Chemical Compounds. Cell Stem Cell. 7 (6)651-655.
2. Hindie et al. (2009) Structure and allosteric effects of low-molecular- weight activators on the protein kinase PDK1. Nature Chem Biol. 5: 758-764.
3. Bobkova et al. (2010) Discovery of PDK1 Kinase Inhibitors with a novel mechanism of action by ultra-high throughput screening. J Biol Chem. 285: 18838-18846.