

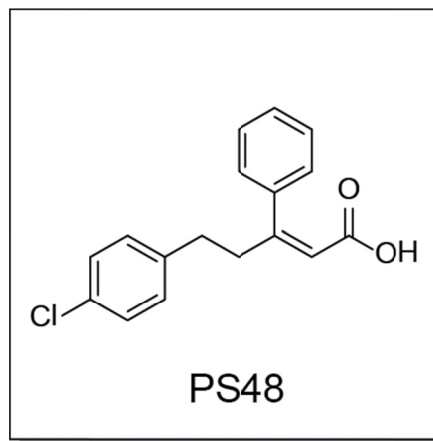


Product Specification Sheet

Product Name: PS48
Catalog Number: C7748-5 (powder)
C7748-5s (10 mM in DMSO)
Package Size: 5 mg

Technical information:

Chemical Formula: C₁₇H₁₅ClO₂
CAS #: 1180678-32-7
Molecular Weight: 286.75
Purity: >98%
Formulation: white solid
Solubility: Soluble in DMSO up to 100 mM
Chemical Name: 5-(4-Chloro-phenyl)-3-phenyl-pent-2-enoic acid
Storage: Store solid powder at 4°C desiccated;
Store DMSO solution at -20°C.



- Handling:**
- For C7748-5 (powder), add 1.74 mL of DMSO to make 10 mM solution.
 - For C7748-5s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

Biological Activity: PS48 is an allosteric small molecule activator of phosphoinositide-dependent protein kinase 1 (PDK1). It binds to the HM/PIF binding pocket instead of the ATP-binding site.
PS48 has been used to enhance reprogramming of neonatal human epidermal keratinocytes (NHEKs).

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

For Technical Support: technical@cellagentech.com

For research use only, not for clinical or diagnostic use.