

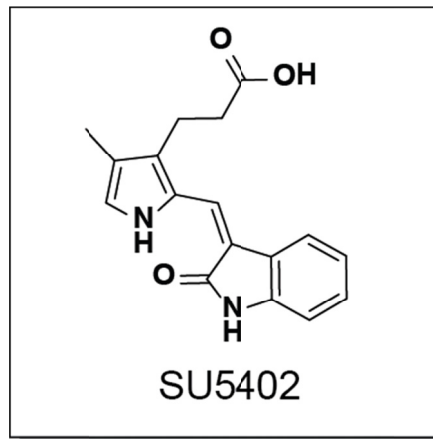


## Product Specification Sheet

**Product Name:** SU5402  
**Catalog Number:** C7854-1 (powder)  
C7854-1s (10mM in DMSO)  
**Package Size:** 1 mg

**Technical information:**

**Chemical Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>  
**CAS #:** 215543-92-3  
**Molecular Weight:** 296.32  
**Purity:** >98%  
**Formulation:** white solid  
**Solubility:** Soluble in DMSO up to 100 mM  
**Chemical Name:** (Z)-3-(4-methyl-2-((2-oxoindolin-3-ylidene)methyl)-1H-pyrrol-3-yl)propanoic acid  
**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C7854-1 (powder), add 337  $\mu$ L of DMSO to make 10 mM solution.
  - For C7854-1s, 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:** SU 5402 is a fibroblast growth factor receptor (FGFR)-specific tyrosine kinase inhibitor with IC<sub>50</sub> ~0.03 $\mu$ M. Multiple myeloma studies suggest that SU 5402 inhibits FGFR3 phosphorylation in vitro. Research shows that it inhibits embryonic left-right determination and exhibits potent anticancer activity in vitro and in vivo. SU5402 (2 $\mu$ M) with CHIR99021(3 $\mu$ M) and PD0325901 (0.4 $\mu$ M) have proven to be highly effective for maintaining pluripotency of ESCs.

- Reference:**
1. Sun L., et al. Design, synthesis, and evaluations of substituted 3-[(3- or 4-carboxyethyl)pyrrol-2-yl)methylidene]indolin-2-ones as inhibitors of VEGF, FGF, and PDGF receptor tyrosine kinases. *J Med Chem.* 1999;42(25):5120-30
  2. Tanaka Y., et al. FGF-induced vesicular release of Sonic hedgehog and retinoic acid in leftward nodal flow is critical for left-right determination. *Nature.* 2005;435(7039):172-7
  3. Qi-Long Ying, et al. The ground state of embryonic stem cell self-renewal. *Nature* 2008; 453, 519–523

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