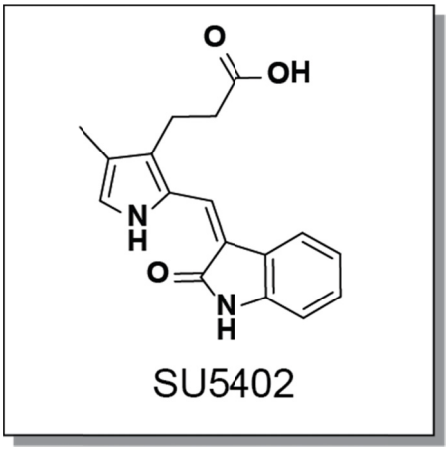
Product Specification Sheet

Product Name: SU5402

Catalog Number: C7854-1 (powder)
C7854-1s (10mM in DMSO)

Package Size: 1 mg



Technical information:

Chemical Formula:	$C_{17}H_{16}N_2O_3$
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 uL 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_{50} ~0.03μM. 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 (2μM) with CHIR99021(3μM) and PD0325901 (0.4μM) 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-carboxyethylpyrrol-2-yl)methylidenyl]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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