

Product Specification Sheet

Product Name: SU11274

Catalog Number: C7811

Technical information:

Chemical Formula: C₂₈H₃₀ClN₅O₄S

CAS #: 658084-23-2

Molecular Weight: 568.09

Purity: > 98%

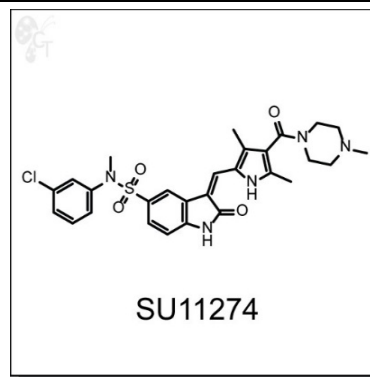
Appearance: Yellow solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: (Z)-N-(3-chlorophenyl)-3-((3,5-dimethyl-4-(1-methylpiperazine-4-carbonyl)-1H-pyrrol-2-yl)methylene)-N-methyl-2-oxindoline-5-sulfonamide

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.176mL of DMSO for each mg of SU11274.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: SU-11274 is an oxindole-based, ATP-competitive, Met inhibitor with activity of 20 nM and is >500-fold selective against a variety of other kinases such as PDGFR, EGFR, cdk2, src, and FGFR. [1] SU11274 induces G1 cell cycle arrest and apoptosis with increased caspase 3 activity. Reduction of phosphorylation in the PI3K and Ras pathway components, such as Akt, GSK-3, and FKHR. [1] SU11274 inhibits cell viability, c-Met/HGF and downstream cell proliferation in c-Met-expressing NSCLC cells. [2]

More recently, SU11274 has been extensively studied for the treatment of hepatocellular carcinoma (HCC). In particular, cells positive for des-gamma-carboxyprothrombin (DCP), an agent that interacts with c-Met to activate HCC cell growth, were inhibited by SU11274. [3]

- Reference:**
1. Sattler et al., A novel small molecule met inhibitor induces apoptosis in cells transformed by the oncogenic TPR-MET tyrosine kinase. *Cancer Res.* 2003, 63, 5462-5469. Pubmed ID: 14500382
 2. Ma et al., Functional expression and mutations of c-Met and its therapeutic inhibition with SU11274 and small interfering RNA in non-small cell lung cancer. *Cancer Res.* 2005, 65, 1479-1488. Pubmed ID: 15735036
 3. Inagaki et al., Effect of c-Met inhibitor SU11274 on hepatocellular carcinoma cell growth. *BioScience Trends* 2011, 5(2), 52-56. Pubmed ID: 21572247

To reorder: <http://www.cellagentech.com/SU11274/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.