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Technical Data Sheet

SU 16f

Catalog Number :2514536

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: SU-16f, PDGFR Tyrosine Kinase Inhibitor VII

Chemical Name: 3-[2,4-dimethyl-5-[(2-oxo-6-phenyl-1H-indol-3-ylidene)methyl]-1H-pyrrol-3-yl]propanoic acid

Molecular Formula: $C_{24}H_{22}N_2O_3$

Molecular Weight: 386.4

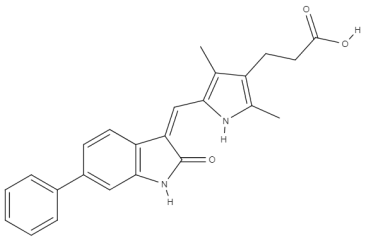
CAS Number: 251356-45-3

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

SU 16f is a potent indolinone platelet-derived growth factor receptor beta inhibitor (PDGFRβ). It is reported to accelerate the down-regulation of fibroblast genes and enhance the efficiency of the conversion of human fibroblasts into functional cardiomyocytes in conjunction with other small molecules.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. DMSO up to 100mM.

References

1.Cao, N., Huang, Y., Zheng, J., Spencer, C. I., Zhang, Y., Fu, J. D., ... Ma, T. (2016). Conversion of human fibroblasts into functional cardiomyocytes by small molecules.;Science,;352(6290), 1216-1220.

2. Kojima, H., Ieda, M. (2017). Discovery and progress of direct cardiac reprogramming.;Cellular and molecular life sciences,;74(12), 2203-2215.

3. Chen, Y., Yang, Z., Zhao, Z. A., Shen, Z. (2017). Direct reprogramming of fibroblasts into cardiomyocytes.;Stem cell research therapy,;8(1), 118.

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