

Pluripotin

Catalog Number :8393780

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

Product Information

Synonyms: SC-1, SC1

Chemical Name: N-(3-(7-(1,3-dimethyl-1H-pyrazol-5-ylamino)-1-methyl-2-oxo-1,2-dihydropyrimido[4,5-d]pyrimidin-3(4H)-yl)-4-methylphenyl)-3-(trifluoromethyl)benzamide

Molecular Formula: C₂₇H₂₅F₃N₈O₂

Molecular Weight: 550.5

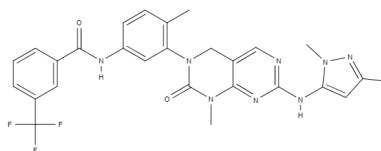
CAS Number: 839707-37-8

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

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



Description

Pluripotin is an inhibitor of both RasGAP and ERK1. The inhibition of RasGAP is used to promote self-renewal and the inhibition of ERK1 blocks cell differentiation. Pluripotin can be combined with leukemia inhibitory factor (LIF) to promote the derivation of embryonic cell lines from refractory strains.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 45mM.

References

1. Yang, W., Wei, W., Shi, C., Zhu, J., Ying, W., Shen, Y., ... Deng, H. (2009). Pluripotin combined with leukemia inhibitory factor greatly promotes the derivation of embryonic stem cell lines from refractory strains.; *Stem Cells*, 27(2), 383-389.
2. Pieters, T., Haenebalcke, L., Hocheplied, T., D'Hont, J., Haigh, J. J., Van Roy, F., van Hengel, J. (2012). Efficient and user-friendly pluripotin-based derivation of mouse embryonic stem cells.; *Stem Cell Reviews and Reports*, 8(3), 768-778.
3. Duan, H., Wang, Y., Yang, L., Qu, M., Wang, Q., Shi, W., Zhou, Q. (2012). Pluripotin enhances the expansion of rabbit limbal epithelial stem/progenitor cells in vitro.; *Experimental eye research*, 100, 52-58.