

OAC-2

Catalog Number :6013929

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

Product Information

Synonyms: OAC2, AK175881, N-1h-indol-5-yl-benzamide

Chemical Name: N-(1H-indol-5-yl)benzamide

Molecular Formula: C₁₅H₁₂N₂O

Molecular Weight: 236.3

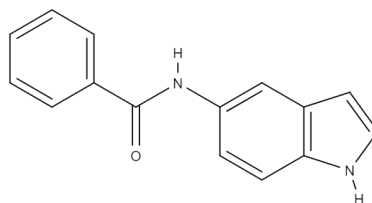
CAS Number: 6019-39-2

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

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



Description

OAC-2 is an Octamer-binding transcription factor 4 (OCT4) activator. It is reported to enhance the reprogramming efficiency of induced pluripotent stem cells (iPSCs) from fibroblasts and induces cardiomyocyte-like cells generation from fibroblasts when used in conjunction with other small molecules.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. DMSO up to 10mg/ml.

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. Li, W., Tian, E., Chen, Z. X., Sun, G., Ye, P., Yang, S., ... Wang, C. (2012). Identification of Oct4-activating compounds that enhance reprogramming efficiency.;*Proceedings of the National Academy of Sciences*;109(51), 20853-20858.
3. Takahashi, K., Tanabe, K., Ohnuki, M., Narita, M., Ichisaka, T., Tomoda, K., Yamanaka, S. (2007). Induction of pluripotent stem cells from adult human fibroblasts by defined factors.;*cell*;131(5), 861-872.