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Technical Data Sheet

Kartogenin

Catalog Number :4723153

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

Product Information

Synonyms: 2-([1,1'-Biphenyl]-4-ylcarbamoyl)benzoic acid, N-Biphenyl-4-yl-phthalamic acid, ST50171256

Chemical Name: 2-[(4-phenylphenyl)carbamoyl]benzoic acid

Molecular Formula: $C_{20}H_{15}NO_3$

Molecular Weight: 317.3

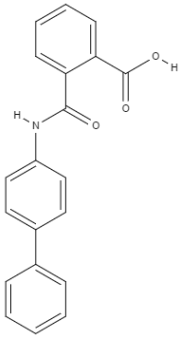
CAS Number: 4727-31-5

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

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



Description

Kartogenin binds to filamin A, an actin-binding protein, and inhibits its interaction with core-binding factor Beta. This interaction is reported to induce cartilage differentiation and potently induce human mesenchymal stem cells into chondrocytes.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 90mM.

References

1.Marini, J. C., Forlino, A. (2012). Replenishing cartilage from endogenous stem cells.;New England Journal of Medicine,;366(26), 2522-2524.

2. Hayek, A., Kerstetter-Fogle, A. E., Sachlos, E., Bollenbach, T. (2012). Kartogenin: a game-changer in regenerative medicine.;Regenerative medicine, (7), 475.

3. Ray, K. (2012). Therapy: Tissue engineering: harnessing stem cells in cartilage repair.;Nature Reviews Rheumatology,;8(6), 308-308.

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