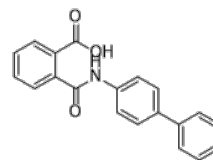


Product Name : Kartogenin
Cat. No. : PC-26809
CAS No. : 4727-31-5
Molecular Formula : C₂₀H₁₅NO₃
Molecular Weight : 317.34
Target : TGFβ-Smad
Solubility : 10 mM in DMSO



Biological Activity

Kartogenin (KGN) is a small molecule stimulator of collagen synthesis of mesenchymal stem cells (MSCs), binds filamin A and disrupts its interaction with the transcription factor core-binding factor β subunit (CBFβ), and induces chondrogenesis by regulating the CBFβ-RUNX1 transcriptional program promotes chondrocyte differentiation with EC50 of 100 nM.

Kartogenin (KGN) shows chondroprotective effects in vitro and in osteoarthritis (OA) animal models.

Kartogenin (KGN) stimulate collagen synthesis of mesenchymal stem cells (MSCs).

Kartogenin (KGN) also is a potent stimulator of limb skeletal growth, facilitates joint formation by promoting interzone compaction and lubricin/Prg4 expression, and stimulates the activity of key signaling factors, including TGFβ superfamily members.

References

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Wang J, et al. Biochem Biophys Res Commun. 2014 Jul 18;450(1):568-74.

Decker RS, et al. Dev Biol. 2014 Nov 15;395(2):255-67.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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