

---

## Kartogenin (KGN)

产品编号: D50724

CAS: 4727-31-5

分子式: C<sub>20</sub>H<sub>15</sub>NO<sub>3</sub>

纯度: ≥98%

InChi: InChi=1S/C<sub>20</sub>H<sub>15</sub>NO<sub>3</sub>/c22-19(17-8-4-5-9-18(17)20(23)24)21-16-12-10-15(11-13-16)14-6-2-1-3-7-14/h1-13H,(H,21,22)(H,23,24)

InChi Key: SLUINPGXGFUMLL-UHFFFAOYSA-N

Smiles: OC(=O)C1C=CC=CC=1C(=O)NC1C=CC(=CC=1)C1C=CC=CC=1

外观: 固体粉末

作用通路: TGF-beta/Smad

溶解性: DMSO up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: Kartogenin (KGN) is a potent small molecule that can promote chondrocyte differentiation of human mesenchymal stem cells/MSCs (EC<sub>50</sub> = 100 nM). It was identified by an imaging-based high throughput screening in human MSCs. KGN also shows chondro-protective effects in vitro, and is efficacious in collagenase and surgery induced OA models in mice. MOA studies suggested that KGN binds to filamin A, disrupts its interaction with the transcription factor CBFβ, and induces chondrogenesis by regulating the CBFβ-RUNX1 transcriptional program. Kartogenin serves as a very useful tool to study and promote chondrogenesis, and may provide a new strategy of cell-based therapy for treating osteoarthritis.