
Daidzein-2c

产品编号: D50824

CAS: 97846-18-9

分子式: C₁₈H₁₆O₄

纯度: ≥98%

InChi: InChI=1S/C₁₈H₁₆O₄/c1-11(2)22-14-7-8-15-17(9-14)21-10-16(18(15)20)12-3-5-13(19)6-4-12/h3-11,19H,1-2H3

InChi Key: DEQMUPGWSXUDKV-UHFFFAOYSA-N

Smiles: CC(C)OC1C=C2OC=C(C(=O)C2=CC=1)C1C=CC(O)=CC=1

外观: 固体粉末

溶解性: DMSO up to 100 mM

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

产品介绍: Daidzein-2c is a potent synthetic daidzein analog, has osteogenic induction potentials on human Mesenchymal Stem Cells (MSC). Human bone marrow derived mesenchymal stem cells from three different donors were treated with Daidzein-2c and shown to exhibit enhanced osteogenesis when compared to daidzein or estrogen treatment. The enhanced osteogenic induction by Daidzein-2c resulted in increased osterix (Sp7), alkaline phosphatase (ALP), osteopontin (OPN), and insulin-like growth factor 1 (IGF-1), which are osteogenic factors that regulate the maturation of osteogenic progenitor cells into more differentiated osteoblast cells. It serves as a useful chemical tool to further validate and develop novel treatments of osteoporosis via promoting bone formation.