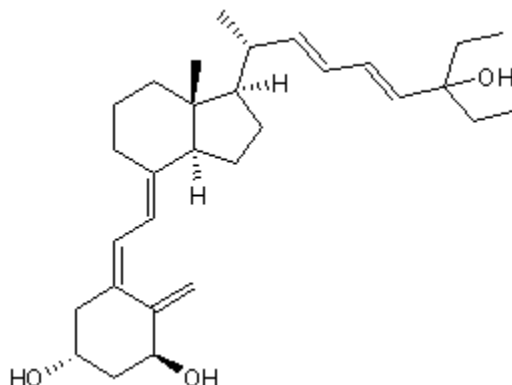


**EB 1089**  
Cat. No. 3993



**Alternative Name:** Seocalcitol

**Chemical Name:** (1*R*,3*S*,5*Z*)-5-[(2*E*)-2-[(1*R*,3*aS*,7*aR*)-1-[(1*R*,2*E*,4*E*)-6-Ethyl-6-hydroxy-1-methyl-2,4-octadien-1-yl]-octahydro-7*α*-methyl-4*H*-inden-4-ylidene]ethylidene]-4-methylene-1,3-cyclohexanediol

### Biological Activity

Vitamin D receptor (VDR) agonist; analog of [calcitriol](#) (Cat. No. 2551). Exhibits anti-tumor and anti-proliferative activity with reduced hypercalcemic effects. 60 times more potent in inhibiting MCF-7 cell growth *in vitro*; also shown to induce autophagy in MCF-7 cells. Reverses the effects of parathyroid hormone-related protein (PTHrP).

### Technical Data

**M.Wt:**

454.68

**Purity:**

>98 %

**Formula:**

C<sub>30</sub>H<sub>46</sub>O<sub>3</sub>

**Storage:**

Store at -20°C

**Solubility:**

Soluble in DMSO and in ethanol

**CAS No:**

134404-52-7

The technical data provided above is for guidance only.

For batch specific data refer to the Certificate of Analysis.

### References

**Abdaimi *et al*** (1999) Reversal of hypercalcaemia with the vitamin D analogue EB1089 in a human model of squamous cancer. *Cancer Res*, **59** 3325.

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**Hoyer-Hansen et al** (2005) Vitamin D analog EB1089 triggers dramatic lysosomal changes and Beclin 1-mediated autophagic cell death. Cell Death Differ. **12** 1297. PMID: [15905882](#).

**Lu et al** (2008) Vitamin D<sub>3</sub> analogue EB1089 inhibits the proliferation of human laryngeal squamous carcinoma cells via p57. Mol.Cancer Ther. **7** 1268. PMID: [18483314](#).

**Ormerod et al** (2008) The calcitriol analogue EB1089 impairs alveolarization and induces localized regions of increased fibroblast density in neonatal rat lung. Exp.Lung.Rs. **34** 155.

**Bhatia et al** (2009) EB1089 inhibits the parathyroid hormone-related protein-enhanced bone metastasis and xenograft growth of human prostate cancer cells. Mol.Cancer Ther. **8** 1787. PMID: [19584236](#).

If you know of a relevant citation for this product [please let us know](#).

Keywords: EB 1089, supplier, EB1089, VDR, agonist, Vitamin, D, receptors, seocalcitol, VDR-like

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