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Produktinformation

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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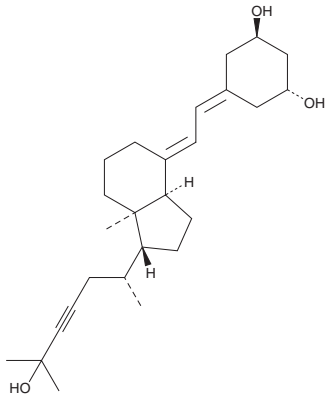
PRODUCT INFORMATION

Inecalcitol

Item No. 37288

CAS Registry No.:	163217-09-2
Formal Name:	(1R,3R)-5-[(2E)-2-[(1R,3aR,7aR)-octahydro-1-[(1R)-5-hydroxy-1,5-dimethyl-3-hexyn-1-yl]-7a-methyl-4H-inden-4-ylidene] ethylidene]-1,3-cyclohexanediol
Synonyms:	TX 522, 19-nor-14-*epi*-23-yne-1,25-dihydroxy Vitamin D_3
MF:	$C_{26}H_{40}O_3$
FW:	400.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 245, 252, 262 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Inecalcitol is supplied as a solid. A stock solution may be made by dissolving the inecalcitol in the solvent of choice, which should be purged with an inert gas. Inecalcitol is soluble in DMSO.

Description

Inecalcitol is a derivative of calcitriol (Item No. 71820) and an agonist of the vitamin D receptor (VDR).[1] It induces reporter gene expression in VDR-expressing COS-1 cells when used at a concentration of 1 nM. Inecalcitol induces differentiation of HL-60 leukemia and MG-63 osteosarcoma cells (EC_{50}s = 6.2 and 0.18 nM, respectively) and reduces the proliferation of MCF-7 breast cancer cells (EC_{50} = 4.1 nM).[2] It protects primary human keratinocytes against DNA damage induced by UVB irradiation in a concentration-dependent manner.[3] Inecalcitol (100 nM) inhibits acetylcholine- or ATP-induced contractions of aortic rings isolated from spontaneously hypertensive rats.[4] Unlike calcitriol, inecalcitol (80 µg/kg) does not increase serum calcium levels or decrease tibia calcium levels in mice.[2]

References

1. Eelen, G., Verlinden, L., Rochel, N., *et al.* Superagonistic action of 14-epi-analogs of 1,25-dihydroxyvitamin D explained by vitamin D receptor-coactivator interaction. *Mol. Pharmacol.* **67(5)**, 1566-1573 (2005).
2. Verlinden, L., Verstuyf, A., Van Camp, M., *et al.* Two novel 14-epi-analogues of 1,25-dihydroxyvitamin D_3 inhibit the growth of human breast cancer cells *in vitro* and *in vivo*. *Cancer Res.* **60(10)**, 2673-2679 (2000).
3. De Haes, P., Garmyn, M., Verstuyf, A., *et al.* 1,25-Dihydroxyvitamin D_3 and analogues protect primary human keratinocytes against UVB-induced DNA damage. *J. Photochem. Photobiol. B* **78(2)**, 141-148 (2005).
4. Wong, M.S.K., Delansorne, R., Man, R.Y.K., *et al.* Vitamin D derivatives acutely reduce endothelium-dependent contractions in the aorta of the spontaneously hypertensive rat. *Am. J. Physiol. Heart Circ. Physiol.* **295(1)**, H289-H296 (2008).

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