
Product Data Sheet

Product Name: Cinacalcet-D3

Cat. No.: GC63745

Chemical Properties

Cas. No.

Formula C₂₂H₁₉D₃F₃N M.Wt 360.43

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Cinacalcet-d₃ is intended for use as an internal standard for the quantification of cinacalcet by GC- or LC-MS. Cinacalcet is a calcimimetic and an allosteric agonist of the calcium-sensing receptor (CaSR; EC₅₀ = 79.4 nM in HEK293T cells expressing the human receptor).¹ *In vivo*, cinacalcet (0.1-10 mg/kg, s.c.) decreases plasma levels of parathyroid hormone (PTH) in rats. It also decreases plasma levels of PTH and parathyroid cell proliferation in a mouse model of primary hyperparathyroidism.² Formulations containing cinacalcet have been used in the treatment of secondary hyperparathyroidism due to end-stage renal disease and hypercalcemia in patients with parathyroid carcinoma.

1. Ma, J.N., Owens, M., Gustafsson, M., et al. Characterization of highly efficacious allosteric agonists of the human calcium-sensing receptor. *J. Pharmacol. Exp. Ther.* 337(1):275-284(2011)
2. Imanishi, Y., Kawata, T., Kenko, T., et al. Cinacalcet HCl suppresses Cyclin D1 oncogene-derived parathyroid cell proliferation in a murine model for primary hyperparathyroidism. *Calcif. Tissue Int.* 89(1):29-35(2011)

Caution: Product has not been fully validated for medical applications. For research use only.

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