
Product Data Sheet

Product Name: Etelcalcetide

Cat. No.: GC38148

Chemical Properties

Cas. No. 1262780-97-1

Formula $C_{38}H_{73}N_{21}O_{10}S_2$

M.Wt

1048.25

Solubility Soluble in DMSO

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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Etelcalcetide is a peptide agonist of the calcium-sensing receptor (CaSR).¹ It is selective for CaSR over a panel of 33 receptors and ion channels, as well as the norepinephrine transporter at 10 μ M. Etelcalcetide increases intracellular calcium levels in HEK293T cells expressing the human CaSR receptor with an EC₅₀ value of 0.53 μ M. It also inhibits parathyroid secretion from primary rat parathyroid cells (EC₅₀ = 0.36 μ M in the presence of calcium). Etelcalcetide (0.3, 1, and 3 mg/kg) decreases parathyroid hormone and calcium levels in plasma and serum, respectively, in a model of chronic renal insufficiency with secondary hyperthyroidism in nephrectomized rats fed a high-phosphorus diet. Formulations containing etelcalcetide have been used in the treatment of secondary hyperparathyroidism in adult patients with chronic kidney disease undergoing hemodialysis.

1. Harada, K., Fujioka, A., Konno, M., et al. Pharmacology of Parsabiv[®] (etelcalcetide, ONO-5163/AMG 416), a novel allosteric modulator of the calcium-sensing receptor, for secondary hyperparathyroidism in hemodialysis patients. *Eur. J. Pharmacol.* 842:139-145 (2019)

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

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