

Product Data Sheet

Product Name: Trelagliptin-13C-d3

Cat. No.: GC48200

Chemical Properties

Cas. No. 2707203-34-5

SMILES O=C(N([13C]([2H])([2H])[2H])C(N1CC2=CC(F)=CC=C2C#N)=O)C=C1N3CCC[C@@H](N)C3

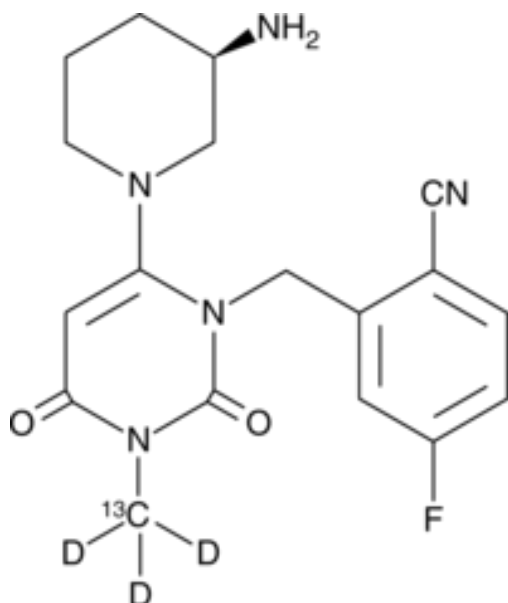
Formula C17[13C]H17D3FN5O2 M.Wt 361.4

Solubility DMSO: soluble 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

Trelagliptin-¹³C-d₃ is intended for use as an internal standard for the quantification of trelagliptin by GC- or LC-MS. Trelagliptin is an inhibitor of dipeptidyl peptidase 4 (DPP-4; IC₅₀ = 4 nM).¹ It is greater than 10,000-fold selective for DPP-4 over isopeptidases. Trelagliptin (7 mg/kg) inhibits plasma

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

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DPP-4 activity and reduces postprandial plasma insulin levels in Zucker *fa/fa* rats. Formulations containing trelagliptin have been used in the treatment of type 2 diabetes mellitus.

1.Kushwaha, R.N., Haq, W., and Katti, S.B.Discovery of 17 gliptins in 17-years of research for the treatment of type 2 diabetes: A synthetic overviewChemistry and Biology Interface4(3)137-162(2014)

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