

Product Data Sheet

Product Name: (R)-Crizotinib-d5

Cat. No.: GC46343

Chemical Properties

Cas. No. 1395950-84-1

SMILES NC1=C(O[C@@H](C2=C(Cl)C=CC(F)=C2Cl)C)C=C(C3=CN(C4([2H])C([2H])([2H])CNC4([2H])[2H])N=C3)C=N1

Formula C₂₁H₁₇Cl₂D₅FN₅O

M.Wt 455.4

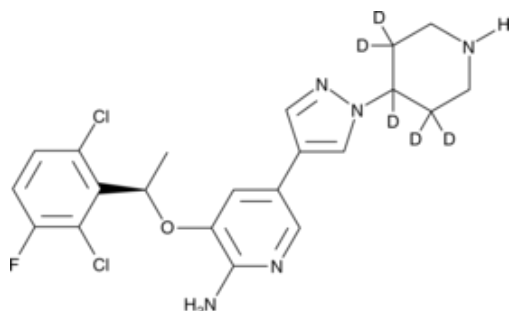
Solubility Chloroform: soluble

Storage Store at -20°C

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

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

Structure



Background

(R)-Crizotinib-d₅ is intended for use as an internal standard for the quantification of (R)-crizotinib by GC- or LC-MS. (R)-Crizotinib is a derivative of aminopyridine that acts as a potent, orally bioavailable, ATP-competitive small-molecule dual inhibitor of c-MET (IC₅₀ = 8 nM) and ALK (IC₅₀ = 20 nM) receptor tyrosine kinases.¹ (R)-Crizotinib shows antitumor efficacy, including cytoreductive antitumor activity, in multiple tumor models implanted in athymic mice that express activated c-MET or ALK fusion proteins (IC₅₀s = 5-20 nM).^{1,2}

1. Cui, J.J., Tran-Dub  , M., Shen, H., et al. Structure based drug design of crizotinib (PF-02341066), a potent and selective dual inhibitor of mesenchymal-epithelial transition factor (c-MET) kinase and

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

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anaplastic lymphoma kinase (ALK)J. Med. Chem.54(18)6342-6363(2011) 2.Tanizaki, J., Okamoto, I., Okamoto, K., et al.MET tyrosine kinase inhibitor crizotinib (PF-02341066) shows differential antitumor effects in non-small cell lung cancer according to MET alterationsJ.Thorac.Oncol.6(10)1624-1631(2011)

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