

Product Name : BMS-751324

Synonyms : BMS751324

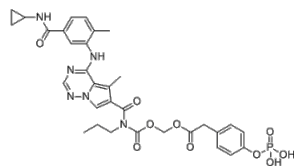
Cat No. : M16791

CAS Number : 948842-66-8

Molecular Formula : C₃₂H₃₅N₆O₁₀P

Formula Weight : 694.64

Chemical Name : (((4-((5-(cyclopropylcarbamoyl)-2-methylphenyl)amino)-5-methylpyrrolo[2,1-f][1,2,4]triazine-6-carbonyl)(propyl)carbamoyl)oxy)methyl 2-(4-(phosphonoxy)phenyl)acetate



Description : BMS-751324 is a novel clinical prodrug of BMS-582949, which is a highly selective p38α MAPK inhibitor with IC₅₀ of 13 nM; BMS-751324 is effectively bioconverted into parent drug BMS-582949 in vivo by alkaline phosphatase and esterase in a stepwise manner; demonstrates similar efficacy in rat LPS-induced TNFα pharmacodynamic model and rat adjuvant arthritis model compared with BMS-582949; BMS-751324 is indeed effective in addressing the pH-dependent absorption issue associated with BMS-582949.

Pathway : MAPK/ERK Signaling

Target : p38 MAPK

Receptor : p38 MAPK

Solubility : —

SMILES : CCCN(C(=O)C1=CN2C(=C1C)C(=NC=N2)NC3=C(C=CC(=C3)C(=O)NC4CC4)C)C(=O)OCOC(=O)CC5=CC=C(C=C5)OP(=O)(O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Liu C, et al. J Med Chem. 2015 Oct 8;58(19):7775-84.