

Product Name : OBI-3424

Synonyms : AST-3424; TH-3424

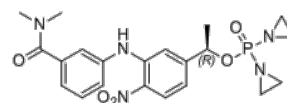
Cat No. : M13309

CAS Number : 2097713-68-1

Molecular Formula : C₂₁H₂₅N₄O₆P

Formula Weight : 460.43

Chemical Name : (R)-1-(3-(3-(dimethylcarbamoyl)phenoxy)-4-nitrophenyl)ethyl di(aziridin-1-yl)phosphinate



Description : OBI-3424 (AST-3424, TH-3424) is a first-in-class, novel prodrug that selectively targets cancers overexpressing the enzyme AKR1C3. OBI-3424 is a highly selective prodrug that is converted by AKR1C3 to a DNA alkylating agent; OBI-3424 is a nitro-benzene prodrug of N,N'-bisethylenephosphoramidate, demonstrates in vivo efficacy against preclinical xenograft models of pediatric T-ALL. Liver Cancer Phase 2 Clinical

Pathway : Cell Cycle/DNA Damage

Target : DNA Alkylator

Receptor : DNA Alkylator

Solubility : —

SMILES : CC(C1=CC(=C(C=C1)[N+](=O)[O-])OC2=CC=CC(=C2)C(=O)N(C)C)OP(=O)(N3CC3)N4CC4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Richard B. Lock, et al. Abstract LB-B16: The AKR1C3-Activated Prodrug OBI-3424 Exerts Profound In Vivo Efficacy Against Preclinical Models of T-Cell Acute Lymphoblastic Leukemia (T-ALL); a Pediatric Preclinical Testing Consortium Study. AACR 2018.