

Product Name : MK-3697

Synonyms : MK 3697;MK3697

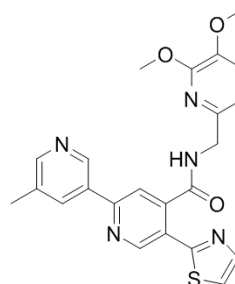
Cat No. : M10860

CAS Number : 1224846-01-8

Molecular Formula : C₂₃H₂₁N₅O₃S

Formula Weight : 447.51

Chemical Name : [2,3'-Bipyridine]-4-carboxamide, N-[(5,6-dimethoxy-2-pyridinyl)methyl]-5'-methyl-5-(2-thiazolyl)-



Description : MK-3697 is a potent, selective, orally bioavailable Orexin 2 receptor (OX₂R) antagonist with K_i of 1.1 nM and IC₅₀ of 16 nM, shows exquisite selectivity over OX₁R (K_i=18 uM); MK-3697 is orally efficacious in sleep experiments across species with high OX₂R occupancy and low OX₁R blockade, demonstrated excellent sleep efficacy across species, and shows potential for the treatment of insomnia. Sleep Disorder Phase 2 Discontinued

Pathway : GPCR/G Protein

Target : Orexin Receptor

Receptor : OX₂

Solubility : DMSO: 22.5 mg/mL

SMILES : COC1=C(OC)N=C(CNC(=O)C2=CC(=NC=C2C2=NC=CS2)C2=CC(C)=CN=C2)C=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Roecker AJ, et al. Bioorg Med Chem Lett. 2014 Oct 15;24(20):4884-90.