

Product Name : eIF4A3 inhibitor 53a

Synonyms : —

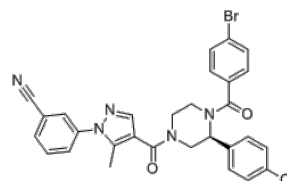
Cat No. : M13295

CAS Number : 2095486-67-0

Molecular Formula : C₂₉H₂₃BrClN₅O₂

Formula Weight : 588.89

Chemical Name : 3-(4-(((3S)-4-(4-Bromobenzoyl)-3-(4-chlorophenyl)-piperazin-1-yl)carbonyl)-5-methyl-1H-pyrazol-1-yl)-benzonitrile



Description : eIF4A3 inhibitor 53a is a potent, selective and cell-active eukaryotic initiation factor 4A3 (eIF4A3) inhibitor with IC₅₀ of 0.26 uM, SPR K_d of 43 nM; displays no activity against eIF4A1, eIF4A2, DHX29 and BRR2 ATPase (IC₅₀>100 uM); binds to a non-ATP binding site of eIF4A3, exhibits cellular nonsense-mediated RNA decay (NMD) inhibitory activity and represents a novel molecular probe for further study of eIF4A3, the exon junction complex (EJC) and NMD.

Pathway : Nuclear Receptor/Transcription Factor

Target : eIF

Receptor : eIF

Solubility : —

SMILES : ClC(C=C1)=CC=C1[C@@H]2N(C(C3=CC=C(Br)C=C3)=O)CCN(C(C4=C(C)N(C5=CC=CC(C#N)=C5)N=C4)=O)C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ito M, et al. J Med Chem. 2017 Apr 27;60(8):3335-3351.