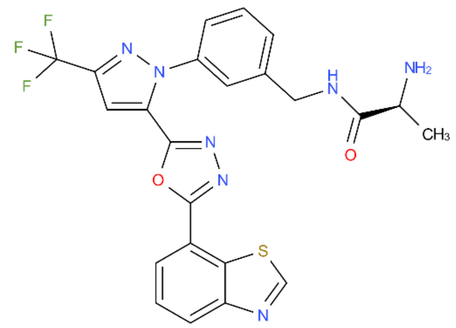
Technical Product Information

Epigenetic tools

CARM1 / PRMT4 Inhibitor

ASIS-P021



AsisChem Inc.
ADVANCING SCIENCE

Product: ASIS-P021
Custom Batch Orders Produced

Product Properties

Names: Pyrazole inhibitor of CARM1 / PRMT4, Compound 7f (Huynh et al., 2009)

SMILES: C(=O)([C@H](C)N)NCc1cc(ccc1)n1nc(cc1c1oc(nn1)c1c2scnc2ccc1)C(F)(F)F

Formal name: (S)-2-amino-N-(3-(5-(5-(benzo[d]thiazol-7-yl)-1,3,4-oxadiazol-2-yl)-3-(trifluoromethyl)-1*H*-pyrazol-1-yl)benzyl)propanamide

MW: 513.50

Formula: $C_{23}H_{18}F_3N_7O_2S$

CAS#: 895523-98-5

Purity: >95%

Appearance: White to yellow solid

Short Term Storage: Room Temperature (25 °C)

Long Term Storage: + 4 °C

Solubility: No data

Handling: No toxicity known

Biological Description

ASIS-P021, published as Compound 7f (Huynh et al., 2009) is a potent pyrazole inhibitor of Co-activator Associated Arginine Methyltransferase (CARM1, also known as PRMT4) with specific affinity to CARM1 (IC50 = 0.04 µM to CARM1, >25 µM against PRMT1 and PRMT3). CARM1 influences transcription initiation, splicing, and mRNA processing through modifications of the chromatin structure (Wu, Cui et al. 2012) and is upregulated in prostate cancer (Hong, Kao et al. 2004, Majumder, Liu et al. 2006). CARM1 is responsible for the transfer of S-adenosyl methionine to arginine residues of a wide variety of proteins, including nuclear hormone receptors.

References

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Customer Service:
support@asischem.com

Sales and Custom Synthesis:
Sales@asischem.com

Toll Free: 866-609-8657