

Product Data Sheet

Product Name: C7280948

Cat. No.: GC12005

Chemical Properties

Cas. No. 587850-67-7

Chemical Name 4-amino-N-phenethylbenzenesulfonamide

SMILES NC1=CC=C(S(NCCC2=CC=CC=C2)(=O)=O)C=C1

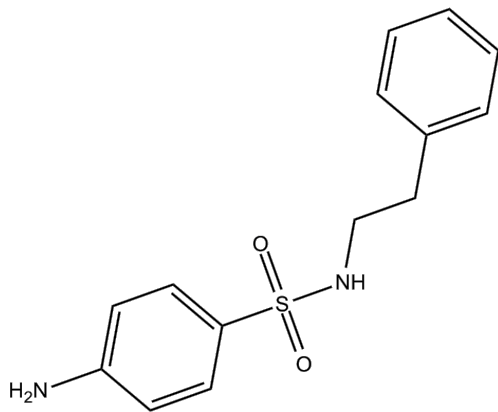
Formula $C_{14}H_{16}N_2O_2S$ M.Wt 276.35

Solubility $\geq 13.9\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

C7280948 is a novel PRMT1 inhibitor with IC_{50} value of $12.75\text{ }\mu\text{M}$ [1].

Protein arginine methyltransferase 1 (PRMT1) is a histone methyltransferase specific for histone H4. PRMT1 catalyzes the transfer of the methyl group from SAM to the guanidine nitrogen atoms of arginine residues to produce monomethyl arginines (MMA) and asymmetric dimethyl arginines (ADMA) [2].

Caution: Product has not been fully validated for medical applications. For research use only.

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C7280948 is a novel PRMT1 inhibitor. C7280948 interacts with aromatic residues at the hPRMT1 substrate binding pocket (Tyr 147 and Tyr 160) [1]. C7280948 inhibited hPRMT1 with IC₅₀ value of 26.7 μ M [3].

References:

- [1]. Heinke R, Spannhoff A, Meier R, et al. Virtual screening and biological characterization of novel histone arginine methyltransferase PRMT1 inhibitors. ChemMedChem, 2009, 4(1): 69-77.
- [2]. Itoh Y, Suzuki T, Miyata N. Small-molecular modulators of cancer-associated epigenetic mechanisms. Mol Biosyst, 2013, 9(5): 873-896.
- [3]. Bissinger EM, Heinke R, Spannhoff A, et al. Acyl derivatives of p-aminosulfonamides and dapsone as new inhibitors of the arginine methyltransferase hPRMT1. Bioorg Med Chem, 2011, 19(12): 3717-3731.

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