


Data Sheet

Product Information

Catalog Number	BP13832
Product Name	Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate
Description	Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate is a selective inhibitor of histone methyltransferase SETD7 (IC ₅₀ = 4.59 μ M) with anticancer activity.
In vitro	Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate (0-100 μ M) inhibits the proliferation of MCF7, HL60 and MV4-11 cells in a dose-dependent manner with the IC ₅₀ values of 10.93 μ M and 16.43 μ M, respectively. Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate inhibits DNMT1, DOT1L, EZH2, NSD1, SETD8 and G9a by less than 45%, whereas it inhibits SET7 by 90% at concentrations of 100 μ M.
CAS No.	303141-21-1
Chemical Formula	C ₁₅ H ₁₅ N ₃ O ₅ S
Molecular Weight	349.36
Solubility	
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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