

Product Name	: Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate
Synonyms	: DC-S239
Cat No.	: M28480
CAS Number	: 303141-21-1
Molecular Formula	: C ₁₅ H ₁₅ N ₃ O ₅ S
Formula Weight	: 349.4
Chemical Name	: —
Description	<p>Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate is a selective inhibitor of histone methyltransferase SETD7 (IC₅₀ = 4.59 μM) with anticancer activity. (In Vitro): Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate (0-100 μM) inhibits the proliferation of MCF7, HL60 and MV4-11 cells in a dose-dependent manner with the IC₅₀ values of 10.93 μM and 16.43 μM, 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 μM.</p>
Pathway	: Chromatin/Epigenetic
Target	: Histone Demethylase
Receptor	: D1
Solubility	: —
SMILES	: <chem>CCOC(c1c(N)sc(C(Nc2cc([N+])([O-])=O)ccc2=O)c1C)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	: