


Certificate of Analysis

Catalog Number	BP13832
Product Name	Ethyl 2-amino-4-methyl-5-[(3-nitrophenyl)carbamoyl]thiophene-3-carboxylate

Physical and Chemical Properties

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	

Product Information

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 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 IC ₅₀ 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.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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v2 Revision on 12/28/2022