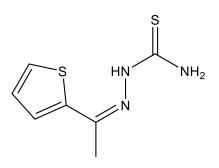


## Catalog # 10-5075 SSAA09E1

CAS# 433212-75-0 [(Z)-1-Thiophene-2-ylethylideneamino]thiourea Lot # S105188



SSAA09E1 is an inhibitor of SARS coronavirus (SARS-CoV) replication by blocking viral entry (EC<sub>50</sub>=6.7 $\mu$ M). SSAA09E1 was discovered by screening a chemical library for blocking of entry of HIV-1 pseudotyped with SARS-CoV surface glycoprotein S. The compound acts via inhibition of cathepsin L(IC<sub>50</sub>=5.33  $\mu$ M), a host protease required for processing of SARS-S during viral entry. Cathepsin B is not inhibited.<sup>1</sup> The compound was also shown to inhibit tyrosinase (IC<sub>50</sub>=0.14  $\mu$ M).<sup>2</sup>

- 1) Adedeji et al., (2013) Novel inhibitors of severe acute respiratory syndrome coronavirus entry that act by three distinct mechanisms; J. Virol. **87** 8017
- 2) Liu et al., (2008) 1-(1-Arylethylidene)thiosemicarbazide derivatives: a new class of tyrosinase inhibitors; Bioorg. Med. Chem.
  16 1096

## PHYSICAL DATA

Molecular Weight:	199.29
Molecular Formula:	$C_7H_9N_3S_2$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml), or ethanol (10 mg/ml with warming)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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