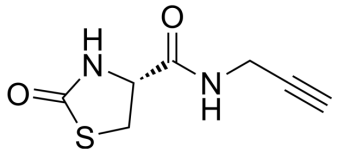
Cystathionine-γ-lyase-IN-1

Cat. No.:	HY-136211
CAS No.:	2165706-30-7
Molecular Formula:	$C_7H_8N_2O_2S$
Molecular Weight:	184.22
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 18 mg/mL (97.71 mM; Need ultrasonic and warming)
Ethanol : 9 mg/mL (48.85 mM; Need ultrasonic and warming)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.4283 mL	27.1415 mL	54.2829 mL
5 mM	1.0857 mL	5.4283 mL	10.8566 mL
10 mM	0.5428 mL	2.7141 mL	5.4283 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cystathionine-γ-lyase-IN-1 is a selective cystathionine γ-lyase (CSE) enzyme inhibitor with an IC_{50} of 6.3 μM[1].
Cystathionine-γ-lyase-IN-1 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

IC50: 6.3 μM (CSE)[1]

In Vitro

Cystathionine-γ-lyase-IN-1 (compound 2a) completely abrogates L-cysteine-induced vasorelaxation at a concentration of 100 μM[1].
?Cystathionine-γ-lyase-IN-1 (100 μM; 30 minutes) significantly inhibits the increased H2S production stimulated by L-Cys in mouse aorta homogenates[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Angela Corvino, et al. Fragment-based de novo design of a cystathionine γ-lyase selective inhibitor blocking hydrogen sulfide production. Sci Rep. 2016 Oct 6;6:34398.

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