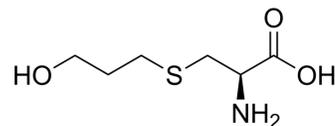


## Fudosteine

<b>Cat. No.:</b>	HY-B0393		
<b>CAS No.:</b>	13189-98-5		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>13</sub> NO <sub>3</sub> S		
<b>Molecular Weight:</b>	179.24		
<b>Target:</b>	Amino Acid Derivatives		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (557.92 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.5792 mL	27.8960 mL	55.7920 mL
	5 mM	1.1158 mL	5.5792 mL	11.1584 mL
	10 mM	0.5579 mL	2.7896 mL	5.5792 mL

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 50 mg/mL (278.96 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Fudosteine is a cysteine derivative and a mucoactive agent. Fudosteine inhibits MUC5AC mucin hypersecretion by reducing MUC5AC gene expression<sup>[1][2]</sup>.

#### In Vitro

Fudosteine (50, 100, 200 mg/kg) decreases the LPS-induced p-ERK1/2 and p-p38 MAPK levels in the rat lungs. The TNF-α-induced increase in MUC5AC mRNA expression is inhibited by pretreatment with 1 mM Fudosteine<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Faculty of Biological and Environmental Sciences. University of Helsinki Finland. 2018 Dec.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Rhee CK, et al. Effect of fudosteine on mucin production. Eur Respir J. 2008;32(5):1195-1202.

[2]. Takahashi K, et al. Nihon Yakurigaku Zasshi. 2000;116(6):371-378.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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