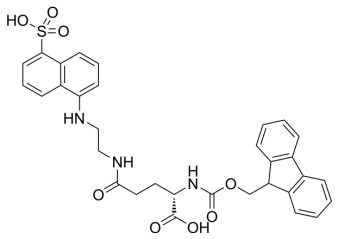
N2-(((9H-Fluoren-9-yl)methoxy)carbonyl)-N2-(2-((5-sulfonaphthalen-1-yl)amino)ethyl)-L-glutamine

Cat. No.:	HY-W048913		
CAS No.:	193475-66-0		
Molecular Formula:	$C_{32}H_{31}N_3O_8S$		
Molecular Weight:	617.67		
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 : 125 mg/mL (202.37 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6190 mL	8.0949 mL	16.1899 mL
	5 mM	0.3238 mL	1.6190 mL	3.2380 mL
	10 mM	0.1619 mL	0.8095 mL	1.6190 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.37 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.37 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N2-(((9H-Fluoren-9-yl)methoxy)carbonyl)-N2-(2-((5-sulfonaphthalen-1-yl)amino)ethyl)-L-glutamine is a glutamine derivative [1].

In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances[1].

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1144.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA