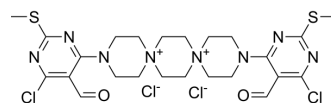


Adhesamine

Cat. No.:	HY-122672
CAS No.:	462605-73-8
Molecular Formula:	C ₂₄ H ₃₂ Cl ₄ N ₈ O ₂ S ₂
Molecular Weight:	670.51
Target:	FAK
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (1.49 mM; ultrasonic and warming and heat to 80°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.4914 mL	7.4570 mL	14.9140 mL	
5 mM	---	---	---	
10 mM	---	---	---	

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

BIOLOGICAL ACTIVITY

Description

Adhesamine, dumbbell-shaped molecule, activates MAPK/FAK pathway. Adhesamine promotes adhesion and growth of mammalian cells. Adhesamine accelerates the differentiation and improves the survival of mice hippocampal neurons in primary culture^[1].

IC₅₀ & Target

MAPK/FAK^[1]

In Vitro

Adhesamine (20 µg/mL; 0-30 d) facilitates attachment and enhances survival of mouse primary cultured hippocampal neurons. Adhesamine induces neurite branching and rapid differentiation of mouse primary cultured hippocampal neurons^[1].

Adhesamine (20 µg/mL; 1 d, 3 d, 4 d) induces cell adhesion by cell-surface heparan sulfate and activates FAK phosphorylation. Adhesamine stimulates neurite differentiation through MAPK activation^[1].

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

REFERENCES

[1]. Hoshino M, et al. Adhesamine, a new synthetic molecule, accelerates differentiation and prolongs survival of primary cultured mouse hippocampal neurons. *Biochem J.* 2010 Mar 29;427(2):297-304.

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

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