

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Data Sheet (Cat.No.TP2554)



CAQK peptide

Chemical Proper	ies	
CAS No. :	2088281-24-5	
Formula:	C17H32N6O6S	H ₂ N \checkmark 0
Molecular Weight:	448.54	H ₂ N H
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	

Biological Description

Description	CAQK peptide specifically binds to injured mouse brain tissue and targets demyelinating areas without affecting healthy tissue. It interacts with a proteoglycan complex that is upregulated in brain injuries, making it useful for drug delivery applications. Additionally, CAQK peptide can penetrate the blood-brain barrier [1] [2].
In vitro	FAM-CAQK selectively associates with brain injuries caused by localized or impact trauma, without interacting with healthy brain tissue or other organs. At the lesion sites, the peptide primarily binds to the fibrous extracellular matrix (ECM) deposited in the interstitial spaces near reactive astrocytes [1] [2].
In vivo	CAQK was employed in a murine model to address localized demyelination caused by acute hemolytic phospholipids. The specific dose administered was 100 nmoles in 100 µL, delivered via tail vein injection at either 24 hours or five days post-injury, targeting the injury sites located in the right abdominal area. The subjects of the study were 8-week-old male C57BL/6J mice [1]. Research findings indicate that CAQK promotes an increased density of multinuclear DAPI+ cells and fragmented myelin at the injury site, along with an accumulation of peptide substances stained for with myelin basic protein staining. Contrarily, the control group, treated with PBS sham surgery, showed no presence of these peptide substances in the spinal cord and maintained normal DAPI+ cell density.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2295 mL	11.1473 mL	22.2946 mL
5 mM	0.4459 mL	2.2295 mL	4.4589 mL
10 mM	0.2229 mL	1.1147 mL	2.2295 mL
50 mM	0.0446 mL	0.2229 mL	0.4459 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor • Natural Compounds • Compound Libraries • Recombinant ProteinsThis product is for Research Use Only• Not for Human or Veterinary or Therapeutic UseTel:781-999-4286E_mail:info@targetmol.comAddress:36 Washington Street,Wellesley Hills,MA 02481