

$\gamma$ -Fibrinogen 377-395 TFA

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	$\gamma$ -Fibrinogen377-395 TFA is an inhibitory peptide derived from fibrinogen, which also functions as a fibrinogen epitope. It effectively blocks microglial activation and impedes fibrin-Mac-1 interactions in vitro. Additionally, it exhibits in vivo efficacy by suppressing experimental autoimmune encephalomyelitis (EAE) in mice. This compound has applications in researching multiple sclerosis (MS) and other neuroinflammatory diseases linked to blood-brain barrier disruption and microglial activation [1].
In vitro	$\gamma$ -Fibrinogen377-395 TFA (200 $\mu$ M) inhibits the binding of fibrinogen to Mac-1, reducing the adhesion of Mac-1 overexpressing cells to immobilized fibrinogen and suppressing microglial activation [1].
In vivo	Administration of $\gamma$ -Fibrinogen377-395 TFA (30 $\mu$ g/mouse; intranasal; once daily for 40 days) enhanced motor function in mice without affecting peripheral immune responses. $\gamma$ -Fibrinogen377-395 did not alter the coagulation properties of fibrinogen [1]. Mice immunized with $\gamma$ 377-395 peptide prior to EAE induction exhibited improved motor strength and coordination compared to the control group [1].

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481