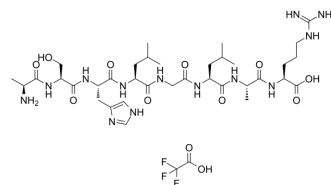


C3a (70-77) (TFA)

Cat. No.:	HY-P1505A
Molecular Formula:	C ₃₇ H ₆₂ F ₃ N ₁₃ O ₁₂
Molecular Weight:	937.96
Sequence:	Ala-Ser-His-Leu-Gly-Leu-Ala-Arg
Sequence Shortening:	ASHLGLAR
Target:	Complement System
Pathway:	Immunology/Inflammation
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (106.61 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.0661 mL	5.3307 mL	10.6614 mL
		5 mM		0.2132 mL	1.0661 mL	2.1323 mL
	10 mM		0.1066 mL	0.5331 mL	1.0661 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (106.61 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	C3a (70-77) TFA (Complement 3a (70-77) TFA) is an octapeptide corresponding to the COOH terminus of C3a, exhibits the specificity and 1 to 2% biologic activities of C3a ^{[1][2]} .
In Vitro	<p>The direct interaction of C3a(70-77) with human mononuclear leukocytes in culture results in a concentration-dependent inhibition of the generation of LIF evoked by mitogens and by the antigen SK-SD^[1].</p> <p>C3a (70-77) induces histamine release and degranulation of rat mast cells, promotes contraction of guinea pig ileal tissue, and enhances vascular permeability in human skin. C3a (70-77) selectively desensitizes ileal smooth muscle to C3a but not to human C5a, a related anaphylatoxin. The cross-desensitization indicates a specific interaction of C3a (70-77) with cellular C3a binding sites^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Research Square Preprint. 2020 Dec.

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REFERENCES

[1]. Payan DG, et al. Modulation of human lymphocyte function by C3a and C3a(70-77). J Exp Med. 1982 Sep 1;156(3):756-65.

[2]. Caporale LH, et al. The active site of C3a anaphylatoxin. J Biol Chem. 1980 Nov 25;255(22):10758-63.

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

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