

pm26TGF-β1 peptide TFA

Cat. No.:	HY-P2294A	
Molecular Formula:	C ₅₆ H ₉₄ F ₃ N ₁₉ O ₂₂ S ₂	
Molecular Weight:	1506.58	
Sequence:	Ala-Cys-Glu-Ser-Pro-Leu-Lys-Arg-Gln-Cys-Gly-Gly-Gly-Ser	ACESPLKRQCGGGS (TFA salt)
Sequence Shortening:	ACESPLKRQCGGGS	
Target:	TGF-β Receptor	
Pathway:	TGF-beta/Smad	
Storage:	Sealed storage, away from moisture and light	
	Powder	-80°C 2 years
		-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (66.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.6638 mL	3.3188 mL	6.6375 mL
	5 mM		0.1328 mL	0.6638 mL	1.3275 mL
	10 mM		0.0664 mL	0.3319 mL	0.6638 mL

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

BIOLOGICAL ACTIVITY

Description

pm26TGF-β1 TFA peptide is a peptide that mimics a portion of the human TGF-β1 molecule. pm26TGF-β1 peptide TFA shows high affinity for the TGF-β1 receptor. pm26TGF-β1 peptide TFA displays potent anti-inflammatory properties and does not exhibit neutrophils' chemoattraction^{[1][2]}.

IC₅₀ & Target

TGF-β1 receptor^{[1][2]}

In Vitro

The synthetic pm26TGF-β1 peptide (1 μM, 10 μM and 100 μM; 24-48 hours) tested in peripheral blood mononuclear cells (PBMC) significantly down-modulates TNF-α and up-regulates IL-10 responses in an inflammatory microenvironment, leading to regulatory T cells (Treg) phenotype differentiation^[1].

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

In Vivo

pm26TGF-β1 peptide (100-1000 μg/kg; subcutaneous injection; once; male C57BL/6 mice) treatment decreases neutrophils migration during inflammatory process in C57BL/6 mice^[1].

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

CUSTOMER VALIDATION

- Exp Ther Med. 2021 Feb;21(2):120.

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REFERENCES

- [1]. Emília R Vaz, et al. A Short Peptide That Mimics the Binding Domain of TGF- β 1 Presents Potent Anti-Inflammatory Activity. PLoS One. 2015 Aug 27;10(8):e0136116.
- [2]. Rodrigues, Tamiris Sabrina. Evaluation of the action of the synthetic peptide pm26TGF- β 1, human TGF- β 1 mimetic, on TNF- α induced apoptosis in *Drosophila melanogaster*. Universidade Federal de Uberlândia, 2017.
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Caution: Product has not been fully validated for medical applications. For research use only.

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