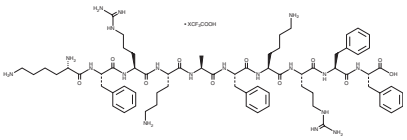
PRODUCT INFORMATION

RP-182 (trifluoroacetate salt)

Item No. 45764

Formal Name:	L-lysyl-L-phenylalanyl-L-arginyl-L-lysyl-L-alanyl-L-phenylalanyl-L-lysyl-L-arginyl-L-phenylalanyl-L-phenylalanine, trifluoroacetate salt
Synonym:	Lys-Phe-Arg-Lys-Ala-Phe-Lys-Arg-Phe-Phe-OH
Peptide Sequence:	KFRKAFKRFF-OH
MF:	$C_{69}H_{103}N_{19}O_{11} \bullet XCF_3COOH$
FW:	1,374.7
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RP-182 (trifluoroacetate salt) is supplied as a solid. Aqueous solutions of RP-182 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. RP-182 (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

RP-182 is a synthetic innate defense regulator (IDR) peptide.[1] It binds to CD206 (K_d = 8.37 µM for the human receptor) and induces its closed conformation with an EC_{50} value of ~11 µM. RP-182 selectively induces phagocytosis, autophagy, and apoptosis in M2 over M1 macrophages. It increases survival and decreases the percentage of stromal $CD206^+$ cells in the tumor microenvironment in a KP16 mouse model of pancreatic cancer. RP-182 decreases renal macrophage and neutrophil infiltration in a mouse model of unilateral ureteral obstruction-induced renal fibrosis.[2]

References

1. Jaynes, J.M., Sable, R.R., M., Bautista, W., *et al.* Mannose receptor (CD206) activation in tumor-associated macrophages enhances adaptive and innate antitumor immune responses. *Sci. Transl. Med.* **12(530)**, eaax6337 (2020).
2. Cao, H., Chen, X., Jin, R., *et al.* RP-182 alleviated obstruction-induced renal fibrosis by reprogramming CD206+ macrophages. *Front. Pharmacol.* **17**, 1739457 (2026).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 07/01/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM