Product Data Sheet

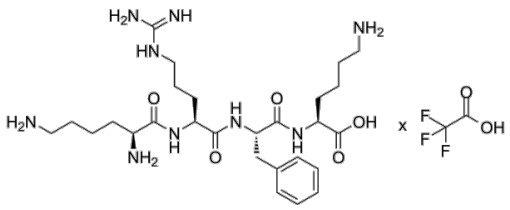
Product Name: KRFK TFA
Cat. No.: GC72215

Chemical Properties

Cas. No.

Formula	$C_{27}H_{47}N_9O_5.xC_2HF_3O_2$	M.Wt	577.73 (free base)
Solubility	DMSO : ≥ 100 mg/mL	Storage	-20°C, sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

KRFK TFA, a peptide derived from TSP-1, can activate TGF-β. KRFK TFA promotes TGF-β-mediated signaling and its downstream role, independent of thrombospondin (TSP) receptors such as CD47 and CD36. KRFK TFA can be used for chronic ocular surface inflammatory disorders reseach.

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

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KRFK TFA (50 μM; 24 h) activates the secretion of TGF-β and reduces the expression of DC maturation markers in tsp-1 deficient bone marrow-derived dendritic cells (BMDCs) [1].

KRFK TFA (5 μg/5 μL/eyes; single dose) significantly prevents the development of chronic ocular surface inflammation in TSP-1$^{-/-}$ mice[1].

References:

[1]. Soriano-Romaní L, et al. Topical Application of TGF-β-Activating Peptide, KRFK, Prevents Inflammatory Manifestations in the TSP-1-Deficient Mouse Model of Chronic Ocular Inflammation. Int J Mol Sci. 2018 Dec 20;20(1):9.

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