

## Product Data Sheet

Product Name: KRFK TFA

Cat. No.: GC72215

### Chemical Properties

Cas. No.

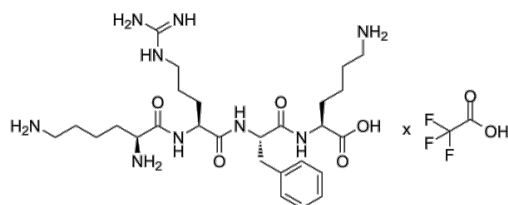
Formula  $C_{27}H_{47}N_9O_5 \cdot xC_2HF_3O_2$  M.Wt 577.73 (free base)

Solubility DMSO :  $\geq 100$  mg/mL Storage  $-20^\circ\text{C}$ , sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at  $37^\circ\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^\circ\text{C}$  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

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

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

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

KRFK TFA (5  $\mu$ g/5  $\mu$ L/eyes; single dose) significantly prevents the development of chronic ocular surface inflammation in TSP-1<sup>-/-</sup> mice[1].

### References:

[1]. Soriano-Romaní L, et al. Topical Application of TGF- $\beta$ -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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