

Product Data Sheet

Product Name: Spadin TFA

Cat. No.: GC61288

Chemical Properties

Cas. No.

Formula $C_{92}H_{143}F_3N_{26}O_{24}$ M.Wt 2126.36

Solubility H_2O : 25 mg/mL (11.76 mM; Need ultrasonic) Storage $-20^{\circ}C$, protect from light

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

YAPLPRWSGPIGVSWGLR (TFA salt)

Background

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

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Spadin TFA, a natural peptide derived from a propeptide released in blood, is able to block the TREK-1 (KCNK2 or K2P2.1) channel activity. Spadin TFA binds specifically to TREK-1 with an affinity of 10 nM. Spadin TFA is an efficient antidepressant in mice[1].

[1]. Jean Mazella, et al. Spadin, a sortilin-derived peptide, targeting rodent TREK-1 channels: a new concept in the antidepressant drug design. PLoS Biol. 2010 Apr 13;8(4):e1000355.

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