

Product Data Sheet

Product Name: Peptide5 TFA

Cat. No.: GC72139

Chemical Properties

Cas. No.

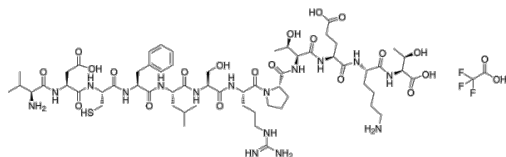
Formula $C_{62}H_{99}F_3N_{16}O_{22}S$ M.Wt 1509.6

Solubility H_2O : 50 mg/mL (33.12 mM; Need ultrasonic) Storage Sealed storage, away from moisture and light, under nitrogen

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

Peptide5 TFA, a connexin 43 mimetic peptide, reduces animals swelling, astrogliosis, and neuronal cell death after spinal cord injury. Peptide5 TFA also inhibits NLRP3 inflammasome, and is an anti-inflammatory agent.

References:

[1]. Simon J O'Carroll, et al. Connexin 43 mimetic peptides reduce swelling, astrogliosis, and neuronal cell death after spinal cord injury. Cell Commun Adhes. 2008 May;15(1):27-42.

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

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[2]. Yilin Mao, et al. Characterisation of Peptide5 systemic administration for treating traumatic spinal cord injured rats. Exp Brain Res. 2017 Oct;235(10):3033-3048.

[3]. Tonkin RS, et al. Attenuation of mechanical pain hypersensitivity by treatment with Peptide5, a connexin-43 mimetic peptide, involves inhibition of NLRP3 inflammasome in nerve-injured mice. Exp Neurol. 2018 Feb;300:1-12.

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