

Product Data Sheet

Product Name: Sepimostat trifluoroacetate

Cat. No.: GC79512

Chemical Properties

Cas. No.

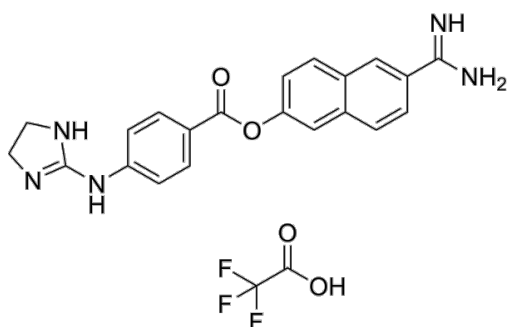
Formula $C_{23}H_{20}F_3N_5O_4$ M.Wt 487.43

Solubility DMSO: 100 mg/mL (205.16 mM; Need ultrasonic) Storage Store at 4°C, 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



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

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Background

Sepimostat (FUT-187) trifluoroacetate exhibits neuroprotective activity via NR2B N-methyl-D-aspartate receptor antagonism at the Ifenprodil-binding site of the NR2B subunit. Sepimostat trifluoroacetate inhibits the Ifenprodil binding with a K_i value of 27.7 μM [1].

In Vivo, Sepimostat (1 to 100 nmol/eye, intravitreal injection) trifluoroacetate exhibits significant neuroprotective effect[1].

References:

[1]. Masahiro Fuwa, et al. Nafamostat and Sepimostat Identified as Novel Neuroprotective Agents via NR2B N-methyl-D-aspartate Receptor Antagonism Using a Rat Retinal Excitotoxicity Model. Sci Rep. 2019 Dec 31;9(1):20409.

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