TOCRIS
a bio-techne brand

Print Date: Jan 3rd 2019

Certificate of Analysis

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Product Name: **GI 530159** **Catalog No.: 6689** **Batch No.: 1**

CAS Number: 69563-88-8

IUPAC Name: 4,4'-[[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[benzenamine]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{27}H_{20}F_6N_2O_2$

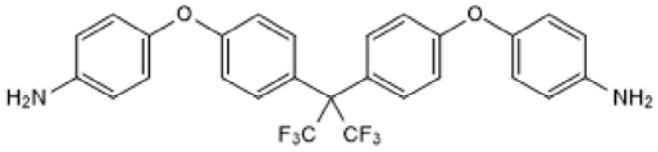
Batch Molecular Weight: 518.45

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.55	3.89	5.4
Found	62.62	3.91	5.31

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Product Information

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Description:

TREK1 and TREK2 channel activator (EC_{50} = 0.76 µM in Rb efflux assay in TREK1-expressing CHO cells). Exhibits selectivity for TREK1/2 over TRAAK, TASK3 and a range of other potassium channels. Hyperpolarizes membrane potential of dorsal root ganglion neurons and depresses neuronal activity in vitro.

Physical and Chemical Properties:

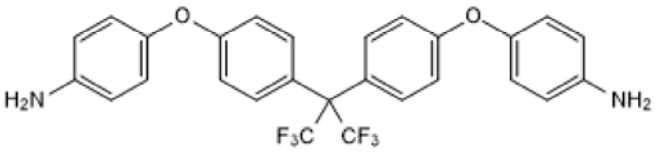
Batch Molecular Formula: $C_{27}H_{20}F_6N_2O_2$

Batch Molecular Weight: 518.45

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Loucif *et al* (2018) GI-530159, a novel, selective, mechanosensitive two-pore-domain potassium (K_{2P}) channel opener, reduces rat dorsal root ganglion neuron excitability. Br.J.Pharmacol. ***175*** 2272. PMID: 29150838.