SZABO SCANDIC

Part of Europa Biosite

# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


**SZABO-SCANDIC HandelsgmbH**

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

# PRODUCT INFORMATION

## LIH383 (trifluoroacetate salt)

*Item No. 36967*

**Formal Name:** (S)-6-amino-2-((2S,5S,8S,11S,20S)-20-amino-11-benzyl-2,5-*bis*(3-guanidinopropyl)-8-(2-(methylthio)ethyl)-4,7,10,13,16,19-hexaoxo-21-phenyl-3,6,9,12,15,18-hexaazahenicosanamido)hexanamide, trifluoroacetate salt

**Synonym:** Phe-Gly-Gly-Phe-Met-Arg-Arg-Lys-$NH_2$

**Peptide Sequence:** FGGFMRRK-$NH_2$

**MF:** $C_{45}H_{72}N_{16}O_8S \bullet XCF_3COOH$

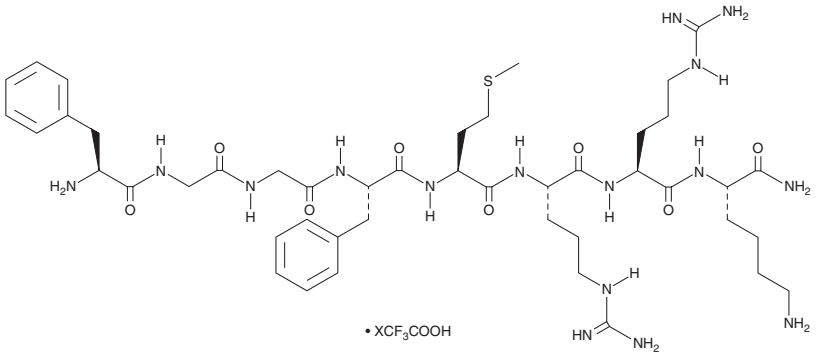
**FW:** 997.2

**Purity:** ≥98%

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥4 years




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

LIH383 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the LIH383 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. LIH383 (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of LIH383 (trifluoroacetate salt) in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of LIH383 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of LIH383 (trifluoroacetate salt) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

LIH383 is a peptide agonist of chemokine (C-X-C motif) receptor 7 (CXCR7), a chemokine and opioid peptide scavenger receptor.[1] It selectively activates CXCR7 ($EC_{50}$ = 0.61 nM) over μ-, δ-, and κ-opioid receptors and the nociceptin opioid peptide (NOP) receptor in β-arrestin recruitment assays at 3 μM. LIH383 (3 μM) prevents CXCR7 uptake of opioid peptides induced by the non-selective opioid receptor agonist dynorphin A (Item No. 18169) in U87-ACKR3 cells.

### Reference


1. Meyrath, M., Szpakowska, M., Zeiner, J., *et al.* The atypical chemokine receptor ACKR3/CXCR7 is a broad-spectrum scavenger for opioid peptides. *Nat. Commun.* **11(1),** 3033 (2020).





**CAYMAN CHEMICAL**
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
**PHONE:** [800] 364-9897
[734] 971-3335
**FAX:** [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM