

Product Data Sheet

Product Name: Litorin (trifluoroacetate salt)

Cat. No.: GC49261

Chemical Properties

Cas. No. N/A

SMILES O=C([C@H]1NC(CC1)=O)N[C@@H](CCC(N)=O)C(N[C@H](C(N[C@@H](C)C(N[C@@H](C(C)C)C(NCC(N[C@H](C(N[C@H](C(N[C@H](C(N)=O)CCSC)=O)CC2=CC=CC=C2)=O)CC3=CN=CN3)=O)=O)=O)CC4=CNC5=CC=CC=C45)=O.OC(C(F)(F)F)=O

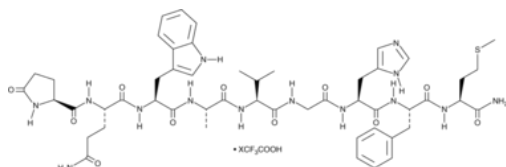
Formula C₅₁H₆₈N₁₄O₁₁S·XCF₃COOH M.Wt 1085.2

Solubility Water: soluble Storage -20°C

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

Litorin is a peptide originally isolated from *L. aurea* that has diverse biological activities.^{1,2,3,4} It is an agonist of the gastrin-releasing peptide receptor (GRPR) and the neuromedin B (NMB) receptor in BALB/c 3T3 fibroblasts expressing the human receptors (EC₅₀s = 0.44 and 0.03 nM, respectively) and binds to frog bombesin receptor subtype 4 (BB4) in CHO-K1 cells (K_i = 1.2 nM).^{2,3} Litorin (10-100 ng/kg) induces contractions of isolated guinea pig gallbladder.⁴ It decreases food intake in rats when administered at doses ranging from 4 to 128 µg/kg.¹

1. Kulkosky, P.J., and Gibbs, J. Litorin suppresses food intake in rats. *Life Sci.* 31(7):685-692 (1982)

2. Uehara, H., González, N., Sancho, V., et al. Pharmacology and selectivity of various natural and synthetic bombesin related peptide agonists for human and rat bombesin receptors.

differs. *Peptides* 32(8):1685-1699 (2011) 3. Katsuno, T., Pradhan, T.K., Ryan, R.R., et al. Pharmacology

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

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and cell biology of the bombesin receptor subtype 4 (BB4-R) *Biochemistry* 38(22)7307-7320(1999)
4. Endean, R., Erspamer, V., Falconieri Erspamer, G., et al. Parallel bioassay of bombesin and litorin, a bombesin-like peptide from the skin of *Litoria aurea* *Br. J. Pharmacol.* 55(2)213-219(1975)

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