# Neurotensin Receptor

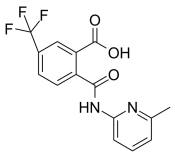
The neuropeptide neurotensin (NT) exerts central actionsthat include hypothermia, analgesia, and a number of effects that involve the modulation of nigrostriatal and mesocortico-limbic dopaminergic pathways. The two neurotensin receptor subtypes known to date, NTR1 and NTR2, belong to the family of G-protein-coupled receptors with seven putative transmembrane domains (TM). The NTR1 has high affinity for neurotensin, whereas the NTR2 has lower affinity for the peptide and is selectively recognized by levocabastine, an anti-histamine H1 receptor antagonist. These receptors have widespread, though not identical, central and peripheral distributions and exhibit distinct ontogenic profiles.

It is notably reported that NTR1 activation results in significant antinociception but also causes marked hypotension and hypothermia. In sharp contrast, NTR2 has emerged as an important pain target because NTR2-selective analogues exhibit potent analgesic activity in both acute and chronic pain conditions in dose-dependent analgesic effects without inducing drop in blood pressure or body temperature.

## AF38469

Cat. No.: HY-12802

AF38469 is a selective, orally bioavailable **Sortilin** inhibitor with an $IC_{50}$ value of 330 nM.

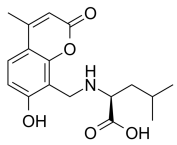


**Purity:** 99.28%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## AF40431

Cat. No.: HY-124673

AF40431, the first reported small-molecule ligand of sortilin, has an $IC_{50}$ of 4.4 μM and a $K_d$ of 0.7 μM . AF40431 is bound in the neurotensin-binding site of sortilin.

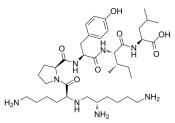


**Purity:** 99.17%
**Clinical Data:** No Development Reported
**Size:** 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## JMV 449

Cat. No.: HY-P1256

JMV 449 is a potent **neurotensin receptor** agonist. JMV 449 shows an $IC_{50}$ of 0.15 nM for inhibition of [$^{125}$I]-neurotensin binding to neonatal mouse brain and an $EC_{50}$ of 1.9 nM in contracting the guinea-pig ileum.

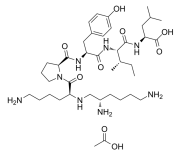


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## JMV 449 acetate

Cat. No.: HY-P1256C

JMV 449 acetate is a potent **neurotensin receptor** agonist. JMV 449 acetate shows an $IC_{50}$ of 0.15 nM for inhibition of $^{125}$I-neurotensin binding to neonatal mouse brain and an $EC_{50}$ of 1.9 nM in contracting the guinea-pig ileum.



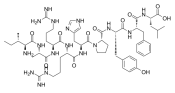
**Purity:** 99.84%
**Clinical Data:** No Development Reported
**Size:** 5 mg

## Kinetensin

(Kinetensin (human))

Cat. No.: HY-P1255

Kinetensin is a **neurotensin**-like peptide isolated from pepsin-treated human plasma.



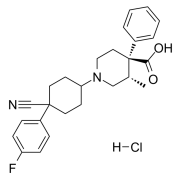
**Purity:** 99.21%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg

## Levocabastine hydrochloride

(R 50547 hydrochloride)

Cat. No.: HY-14277A

Levocabastine (R 50547) hydrochloride is a long acting, highly potent and selective **histamine H1-receptor** antagonist with anti-allergic activity.



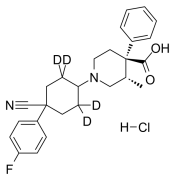
**Purity:** ≥98.0%
**Clinical Data:** Launched
**Size:** 5 mg

## Levocabastine-d4 hydrochloride

(R 50547-d4 hydrochloride)

Cat. No.: HY-14277AS

Levocabastine-d4 (R 50547-d4) hydrochlorideis the deuterium labeled Levocabastine hydrochloride. Levocabastine (R 50547) hydrochloride is a long acting, highly potent and selective **histamine H1-receptor** antagonist with anti-allergic activity.



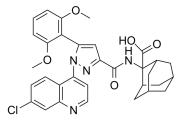
**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Meclinertant

(SR 48692)

Cat. No.: HY-105189

Meclinertant (SR 48692) is a potent, selective, nonpeptide and orally active **neurotensin receptor 1 (NTS1)** antagonist.

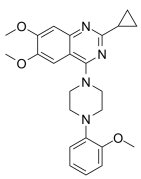


**Purity:** 98.05%
**Clinical Data:** Phase 3
**Size:** 10 mM × 1 mL, 5 mg

## ML314

Cat. No.: HY-16639

ML314 is a potent molecule agonist of NTR1 (EC50 = 1.9 μM); showed good selectivity against NTR2 and GPR35, but did not stimulate Ca2+ mobilization.



**Purity:** 99.82%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg

## Neurotensin

Cat. No.: HY-P0234

Neurotensin, a gut tridecapeptide, acts as a potent cellular mitogen for various colorectal and pancreatic cancers which possess high-affinity **neurotensin receptors** (**NTR**).

Pyr-LYENKPRRPYIL

**Purity:** 97.40%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 25 mg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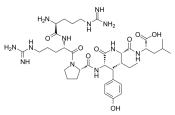
## Neurotensin(8-13)

Cat. No.: HY-P0251

Neurotensin (8-13) is an active fragment of Neurotensin. Neurotensin(8-13) results in a decrease in cell-surface NT1 receptors (NTR1) density.

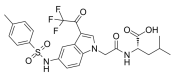


**Purity:** ≥98.0%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 25 mg

## NTRC-824

Cat. No.: HY-12436

NTRC-824 (Compound 5) is a potent, selective and neurotensin-like nonpeptide **neurotensin receptor type 2 (NTS2)** antagonist with an $IC_{50}$ of 38 nM and a $K_i$ of 202 nM. NTRC-824 is >150-fold selectivity for **NTS2** over NTS1 ($K_i$ >30 μM).

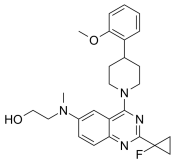


**Purity:** ≥98.0%
**Clinical Data:** No Development Reported
**Size:** 1 mg

## SBI-553

Cat. No.: HY-125880

SBI-553 is a potent and brain penetrant **NTR1** allosteric modulator, with an $EC_{50}$ of 0.34 μM.

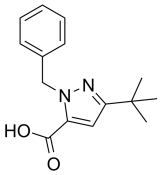


**Purity:** 98.85%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## SORT-PGRN interaction inhibitor 1

Cat. No.: HY-115213

SORT-PGRN interaction inhibitor 1 is a potent inhibitor of the sortilin-progranulin interaction with an $IC_{50}$ of 2 μM.

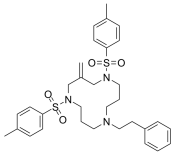


**Purity:** 98.49%
**Clinical Data:** No Development Reported
**Size:** 100 mg, 250 mg

## VGD071

Cat. No.: HY-139668

VGD071, a **sortilin**-targeting compound, is a promising candidate for future studies using mouse breast cancer models.



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Zendusortide

Cat. No.: HY-P3391

Zendusortide is a **sortilin** binding peptide.

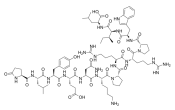



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## [D-Trp11]-Neurotensin

Cat. No.: HY-P3057

[D-Trp11]-Neurotensin, an analogue of Neurotensin (NT), is a selective antagonist of NT in perfused rat hearts but behaves as a full agonist in guinea pig atria and rat stomach strips. [D-Trp11]-Neurotensin can inhibit NT-induced hypotension.



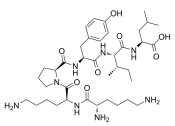
**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## [Lys8, Lys9]-Neurotensin (8-13)

(JMV438)

Cat. No.: HY-P2544

[Lys8, Lys9]-Neurotensin (8-13) (JMV438), a Neurotensin analog, exerts its analgesic effects through activation of the G protein-coupled receptors **NTS1** and **NTS2**, with $K_i$ values of 0.33 nM and 0.95 nM for hNTS1 and hNTS2 receptors, respectively.



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg