

**DATASHEET**

Version: 2016-08-18

**Neurotensin (8-13)****Cat. No.:** RP10442**Size:** 5 mg**Alias:** NT(8-13)**Description:**

Neurotensin (8-13) is the smallest active fragment of neurotensin. Neurotensin(8-13) binds to the same sites as neurotensin. However, in the human brain, neurotensin(8-13) has a higher affinity for these sites than neurotensin does. The rapid degradation of neurotensin (NT) limits its clinical use in cancer imaging and therapy. Neurotensin(8-13) pseudopeptide, NT-VIII, was developed to sidestep this problem. Some changes were introduced to the sequence of neurotensin(8-13) to stabilize the molecule against enzymatic degradation: Arg<sup>8</sup> is now N-methylated, and Lys and Tle have replaced Arg<sup>9</sup> and Ile<sup>12</sup>, respectively. These have stabilized the molecule against enzymatic degradation without affecting its binding properties. Moreover, the increase in stability has enhanced tumor uptake, making this derivative a promising candidate for clinical use.

**Cas No:** 60482-95-3**Sequence (one-letter code):**

RRPYIL

**Sequence (three-letter code):**

{ARG}{ARG}{PRO}{TYR}{ILE}{LEU}

**Solubility:** The peptide is soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weight out a smaller portion of the contents.

**Formula:** C<sub>38</sub>H<sub>64</sub>N<sub>12</sub>O<sub>8</sub>**Molecular Weight:** 816.99**Purity:** > 95%**Storage:**

Store the peptide at -20°C.

**Note:**

\*For Non-Clinical Research Use Only \*

