Rev03
Update: Feb,10,2022

DATASHEET

Neurotensin (8-13)

Cat. No.: RP10442

Overview

Synonyms	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^{8} is now N-methylated, and Lys and Tle have replaced Arg9 and Ile12, 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	{ARG}{ARG}{PRO}{TYR}{ILE}{LEU}
Sequence Shortening	RRPYIL
Molecular Formula	$C_{38}H_{64}N_{12}O_8$
Molecular Weight	816.99

Properties

Purity	> 95%
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.
Form	Lyophilized
Storage	Store the peptide at -20°C.

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-732-885-9188