



Human neurotensin receptor 2 (NTSR2) ELISA kit (0.156-10 ng/mL)

Cat. No.:	0126WXX-1185
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	NTSR2
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

Human neurotensin receptor 2 (NTSR2) ELISA kit (0.156-10 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of NTSR2 in human samples with a range of 0.156-10 ng/mL and a minimum detectable dose (sensitivity) of 0.061 ng/mL. The kit is highly sensitive and easy to use.

Assay Principle

The provided microtiter plate is pre-immobilized with an antibody specific to NTSR2. Standards or samples are introduced into the designated microtiter wells along with a biotin-conjugated detection antibody preparation specific for NTSR2. Subsequently, avidin-conjugated HRP is added to each microplate well and incubated. After the TMB substrate solution is introduced, color development occurs exclusively in wells containing the NTSR2 complex. A sulphuric acid solution terminates the enzyme-substrate reaction, and the absorbance is recorded at $450 \text{ nm} \pm 10 \text{ nm}$. The final concentration of NTSR2 is calculated by mapping the OD values against the established standard curve.

Background

NTSR2 is a G protein-coupled receptor and one of the receptors for the neuropeptide neurotensin. It influences metabolic products and is associated with pathological processes such as obesity.

Synonyms

NTR2; Neurotensin receptor type 2; Levocabastine-sensitive neurotensin receptor; NT-R-2; NTR2

Formula Weight

45,385 Da



Applications

Human neurotensin receptor 2 (NTSR2) ELISA kit (0.156-10 ng/mL) is used to quantify NTSR2 in tissue homogenates and other biological fluids of human, providing data to support research in a wide range of areas, including energy balance, signal transduction, obesity, etc.

Research Area

Energy balance; Signal transduction; Obesity

Specification

Sample Type

Tissue homogenates; Other biological fluids

Detection Range

0.156-10 ng/mL

Sensitivity

0.061 ng/mL

Precision (Intra-assay)

CV<10%

Precision (Inter-assay)

CV<12%

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 4°C (TMB substrate, wash buffer, stop solution) and -20°C (others).