

# Mouse 5-Nucleotidase (5-NT) ELISA Kit

Catalog No: #EK7585



Package Size: #EK7585-1 48T #EK7585-2 96T

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## Description

Product Name	Mouse 5-Nucleotidase (5-NT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.125-8 mU/mL

Sensitivity:0.031 mU/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate 5-NT in samples. An antibody specific for 5-NT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any5-NT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for 5-NT is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of 5-NT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**5'-nucleotidase (EC 3.1.3.5) is an enzyme which catalyzes the phosphorylytic cleavage of 5'nucleotides. Although originally found in snake venom, the activity of 5'nucleotidase has been described for bacteria and plant cells, and is widely distributed in vertebrate tissue. In mammalian cells the enzyme is predominantly located in the plasma membrane and its primary role is in the conversion of extracellular nucleotides (e.g. 5'-AMP), which are generally impermeable, to the corresponding nucleoside (e.g. adenosine) which can readily enter most cells. Consequently, the enzyme plays a key role in the metabolism of nucleotides.

Note: This product is for in vitro research use only