

Rat Striatin (STRN) ELISA Kit

Catalog No: #EK6701



Package Size: #EK6701-1 48T #EK6701-2 96T

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Description

Product Name	Rat Striatin (STRN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	MGC125642; SG2NA; striatin; calmodulin-binding protein
Accession No.	P70483
Uniprot	P70483
GeneID	29149;
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:Request Information

Sensitivity:Request Information

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 STRN in samples. An antibody specific for STRN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTRN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STRN 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 STRN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Striatin, a quantitatively minor protein belonging to the WD-repeat family of proteins, is a Ca²⁺/calmodulin-binding protein mostly expressed in the striatum and in the motor and olfactory systems.

Generally associated with membranes, striatin is mostly found in dendritic spines where it is likely to play a role in Ca²⁺-signaling events. The predicted corresponding peptide is potentially able to form a basic amphiphilic helix, as is often the case for many known calmodulin-binding sites. Calmodulin binding to striatin is Ca²⁺-dependent, with half-maximal binding occurring around 0.5 µM free Ca²⁺. In the presence of Ca²⁺, the equilibrium dissociation constant of calmodulin/striatin fusion protein complex is 40 5 nm.

Note: This product is for in vitro research use only