Human Serotonin N-Acetyltransferase (AANAT) ELISA Kit | AANAT elisa kit

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CATALOG #	REACTIVITY
AAA331040	**Human**

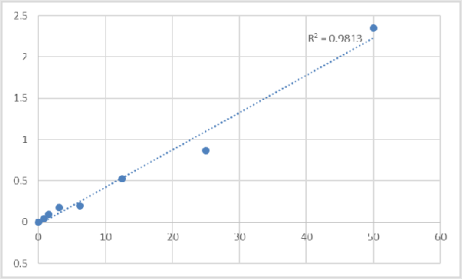
PRODUCT SYNONYMS

Serotonin N-Acetyltransferase (AANAT); Human Serotonin N-Acetyltransferase (AANAT) ELISA Kit; AANAT; SNAT; serotonin acetylase; AANAT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serotonin N-acetyltransferase (AANAT) ELISA Kit has high sensitivity and excellent specificity for detection of Human AANAT. No significant cross-reactivity or interference between Human AANAT and analogues was observed.
Sequence Length	207
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human Serotonin N-acetyltransferase (AANAT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AANAT elisa kit	Description: This Human Serotonin N-acetyltransferase (AANAT) ELISA Kit employs a two-site sandwich ELISA to quantitate AANAT in samples. An antibody specific for AANAT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AANAT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AANAT 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 AANAT bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Serotonin N-acetyl transferase is an enzyme involved in the conversion of serotonin to melatonin in pinealocytes. It is an acetyl-CoA dependent enzyme of the GCN5-related family of N-acetyltransferases (GNATs). Arylalkylamine N-acetyltransferase is the penultimate enzyme in melatonin synthesis and controls the night/day rhythm in melatonin production in the vertebrate pineal gland. Melatonin is essential for seasonal reproduction, modulates the function of the circadian clock in the suprachiasmatic nucleus, and influences activity and sleep. This enzyme is rapidly inactivated when animals are exposed to light at night. This protein is 80% identical to sheep and rat AA-NAT. Arylalkylamine N-acetyltransferase may contribute a multifactorial genetic diseases such as altered behavior in sleep/wake cycle.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116497189
NCBI GeneID	15
UniProt Accession #	Q16613
NCBI Official Full Name	Arylalkylamine N-acetyltransferase
NCBI Official Synonym Full Names	aralkylamine N-acetyltransferase
NCBI Official Symbol	AANAT
NCBI Official Synonym Symbols	DSPS; SNAT
NCBI Protein Information	serotonin N-acetyltransferase
UniProt Protein Name	Serotonin N-acetyltransferase
UniProt Gene Name	**AANAT**
UniProt Synonym Gene Names	SNAT; Serotonin acetylase; AA-NAT
UniProt Entry Name	SNAT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/serotonin-n-acetyltransferase-aanat/331040