

## Recombinant Mouse Aanat Protein, His-tagged

**Cat. No.** Aanat-07M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Aanat Protein (Glu22-Lys236) with N-His tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Glu22-Lys236
<b>Description</b>	The protein encoded by this gene belongs to the acetyltransferase superfamily. It 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 the function of the circadian clock that influences activity and sleep. This enzyme is regulated by cAMP-dependent phosphorylation that promotes its interaction with 14-3-3 proteins and thus protects the enzyme against proteasomal degradation. This gene may contribute to numerous genetic diseases such as delayed sleep phase syndrome. Alternative splicing results in multiple transcript variants.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 28.4 kDa
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

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<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

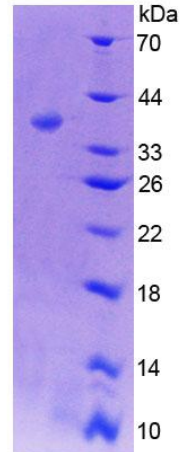
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Aanat arylalkylamine N-acetyltransferase [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Aanat</a>
<b>Synonyms</b>	AANAT; arylalkylamine N-acetyltransferase; serotonin N-acetyltransferase; serotonin acetylase; aralkylamine N-acetyltransferase; Nat4; Snat; Nat-2; AA-NAT; MGC151344
<b>Gene ID</b>	<a href="#">11298</a>
<b>mRNA Refseq</b>	<a href="#">NM_009591</a>
<b>Protein Refseq</b>	<a href="#">NP_033721</a>
<b>UniProt ID</b>	<a href="#">P01590</a>

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15% SDS-PAGE

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