

Recombinant Mouse Aanat Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Aanat Protein (Glu22-Lys236) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu22-Lys236
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.4 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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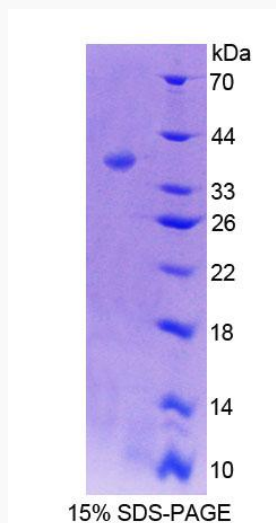
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Aanat arylalkylamine N-acetyltransferase [Mus musculus (house mouse)]
Official Symbol	Aanat
Synonyms	AANAT; arylalkylamine N-acetyltransferase; serotonin N-acetyltransferase; serotonin acetylase; aralkylamine N-acetyltransferase; Nat4; Snat; Nat-2; AA-NAT; MGC151344
Gene ID	11298
mRNA Refseq	NM_009591
Protein Refseq	NP_033721
UniProt ID	P01590

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