

# Recombinant Human AANAT Protein (1-207 aa), His-GST-tagged

**Cat. No.** AANAT-2383H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human AANAT Protein (1-207 aa) is produced by E. coli expression system. This protein is fused with a 10xHis-GST tag at the N-terminal. Research Area: Neuroscience. Protein Description: Full Length.            |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 1-207 aa  |
| <b>Description</b>      | Controls the night/day rhythm of melatonin production in the pineal gland. Catalyzes the N-acetylation of serotonin into N-acetylserotonin, the penultimate step in the synthesis of melatonin.                               |
| <b>Form</b>             | Tris-based buffer,50% glycerol  |
| <b>Molecular Mass</b>   | 51.8 kDa  |
| <b>AA Sequence</b>      | MSTQSTHPLKPEAPRLPPGIPESPSCQRRHTLPASEFRCLTPEDAVSAFEIEREAFIS<br>VLGVCPLYLDEIRHFLTLCPELSLGWFEEGCLVAFIIGSLWDKERLMQESLTLHRSGG<br>HIAHLHVLAVHRAFRQQGRGPILLWRYLHHLGSQLPAVRRRAALMCEDALVPFYERFS<br>FHAVGPCAITVGS�TFMELHCSLRGHPFLRRNSGC |
| <b>Purity</b>           | > 85% as determined by SDS-PAGE.  |

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|                      |   |
|----------------------|---|
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.  |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.  |

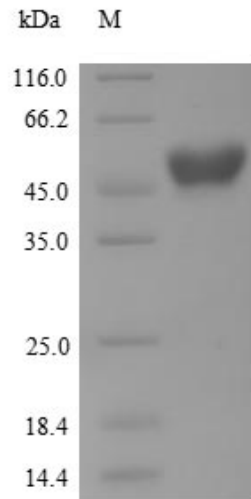
## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | AANAT aralkylamine N-acetyltransferase [ Homo sapiens ]                   |
| <b>Official Symbol</b> | AANAT   |
| <b>Synonyms</b>        | AANAT; aralkylamine N-acetyltransferase; SNAT; serotonin acetylase; DSPS; |
| <b>Gene ID</b>         | 15  |
| <b>mRNA Refseq</b>     | NM_001088   |
| <b>Protein Refseq</b>  | NP_001079   |
| <b>MIM</b>             | 600950  |
| <b>UniProt ID</b>      | Q16613  |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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