

Recombinant Rat SNAT Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52520

Size: 10ug, 100ug

Protein Name: Serotonin N-acetyltransferase (Serotonin acetylase) (EC 2.3.1.87)
(Aralkylamine N-acetyltransferase) (AA-NAT)

Synonym: Aanat, Snat

UniProt ID: Q64666

UniProt Link: www.uniprot.org/uniprotkb/Q64666/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 205 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLSIHPLKPEALHLPLGTSEFLGCQRRHTLPASEFRCLTPEDATSAFEIEREAFISVSGTCPLHLDEIR
HFLTLCPELSLGLWFEEGCLVAFIIGSLWDKERLTQESLTLHRPGGRTAHLHVLAVHRTFRQQGKGSV
LLWRYLHHLGSQPAVRRVLMCENALVPFYEFKGFQAMGPCAITMGSLTFTTELQCSLRCHTFLRRN
SGC

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Serotonin N-acetyltransferase (Serotonin acetylase) (EC 2.3.1.87) (Aralkylamine N-acetyltransferase) (AA-NAT) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: 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.

Subcellular Localization: Cytoplasm .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.