

Product datasheet

AANAT peptide ab5004

製品の詳細

製品名	AANAT peptide
精製度	> 95 % HPLC. Peptides are analyzed by Reverse-Phase HPLC (RP-HPLC) in order to determine purity. Identities are confirmed by MALDI-MS.
Animal free	No
由来	Synthetic

特性

Our [Abpromise guarantee](#) covers the use of **ab5004** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Blocking
製品の状態	Lyophilized
備考	

This peptide may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and AA-NAT, catalog [ab3506](#). Using a solution of peptide of equal volume and concentration to the corresponding antibody will yield a large molar excess of peptide (~ 70-fold) for competitive inhibition of antibody-protein binding reactions.

This product was previously labelled as Serotonin N-acetyltransferase

前処理および保存

保存方法および安定性	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
再構成	>95% pure, lyophilized synthetic peptide. Reconstitute with 0.1 ml of distilled water.

関連情報

機能	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.
組織特異性	Highly expressed in pineal gland and at lower levels in the retina. Weak expression in several brain regions and in the pituitary gland.

パスウェイ	Aromatic compound metabolism; melatonin biosynthesis; melatonin from serotonin: step 1/2.
関連疾患	Delayed sleep phase syndrome
配列類似性	Belongs to the acetyltransferase family. AANAT subfamily. Contains 1 N-acetyltransferase domain.
翻訳後修飾	cAMP-dependent phosphorylation on both N-terminal Thr-31 and C-terminal Ser-205 regulates AANAT activity by promoting interaction with 14-3-3 proteins.
細胞内局在	Cytoplasm.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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