

CAMP (biochemistry)

Genesis

It is formed from ATP through an enzyme adenylyl cyclase.

Meaning

cAMP (cyklic 3',5'-adenosine monophosphate) is used as one of the second messengers in cell signaling. Its activating effect on the enzyme protein kinase A is important.

Degradation

cAMP is degraded through an enzyme phosphodiesterase. This enzyme hydrolyzes its phosphodiester bond and thereby changes it to the physiologically ineffective form adenosine-5'-monophosphate (AMP).

It is one of the ways of regulating the transfer of information through the regulation of the concentrations of second messengers in the cytoplasm.

Links

Related articles

- Adenylyl cyclase

References

- SILBERNAGL, Stefan a Agamemnon DESPOPOULOS. *Atlas fyziologie člověka*. 6. vydání. Praha : Grada, 2004. 435 s. ISBN 80-247-0630-X.