

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



ADCY 4 (L226) Peptide

Cat No.: BS3421P

Background

Adenylyl cyclases function to convert ATP to cyclic AMP in response to activation by a variety of hormones, neurotransmitters and other regulatory molecules. Cyclic AMP, in turn, activates several other target molecules to control a broad range of diverse phenomena such as metabolism, gene transcription and memory. Adenylyl cyclases respond to receptor-initiated signals, mediated by the Gs and Gi heterotrimeric G proteins. The binding of an agonist to a Gs-coupled receptor catalyzes the exchange of GDP (bound to $G\alpha_s$) for GTP, the dissociation of GTP- $G\alpha_s$ from $G\beta\gamma$ and $G\alpha_s$ -mediated activation of adenylyl cyclase. Adenylyl cyclase IV (AC IV) and IX mRNA are expressed in all kidney nephron segments. AC IV exhibits moderate staining in type II and type IV fibrocytes in rat cochlea and immunoreactivity is also observed in type I fibrocytes. Activation of the D2 dopaminergic and m4 muscarine receptors inhibits the activity of adenylyl cyclase isozymes I, V, VI and VIII, whereas type II, IV and VII are stimulated and type III is not affected.

Swiss-Prot

Q8NFM4

Applications

Blocking

Specificity

This peptide can be used with studies using BS3421 ADCY 4 (L226) pAb.

Purification & Purity

Synthetic peptide ADCY 4 (L226). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.