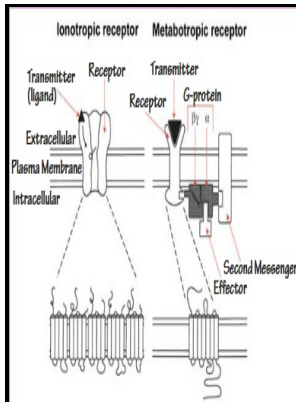


Intracellular messengers

Pergamon Press - Intracellular Messenger Pathways as Mediators of Neural Plasticity



Description: -

- Signal Transduction.

G proteins.

Second messengers (Biochemistry)

Cellular signal transduction. Intracellular messengers

- section 139

International encyclopedia of pharmacology and therapeutics

; Intracellular messengers

Notes: Includes bibliographical references and index.

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Second messenger system

Future studies will undoubtedly identify many additional target genes of antidepressant treatments. The following are some of the more common events in intracellular signaling.

Second Messenger: cAMP Pathway

The G-protein decouples from the receptor and triggers adenylate cyclase to synthesize cAMP from ATP. To date, short- and long-term opiate exposure, and precipitation of opiate withdrawal, have been shown to influence: 1 CREB phosphorylation and the DNA-binding activity of this and other cAMP-regulated transcription factors e.

Intracellular messengers in the generation and degeneration of hippocampal neuroarchitecture, Journal of Neuroscience Research

First messengers are extracellular signalling molecules while second messengers are intracellular signalling molecules.

Second Messenger Mechanisms for Mediating Intracellular Hormonal Functions

A by-product of PLC γ activity is the production of IP₃ which binds to receptors on the ER causing release of calcium and activation of PKC family members and CaMKK through binding of calmodulin. Activation of these pathways leads to CREB activation and target gene expression.

Intracellular messengers in the generation and degeneration of hippocampal neuroarchitecture, Journal of Neuroscience Research

Indeed, increasing evidence indicates that RNA processing, transport to the cytoplasm, assembly into polysomes, stability, and rate of translation are also highly regulated in neurons see 20,49. Signal- induced conversion of the inactive to active state is mediated by a guanine nucleotide—exchange factor GEF, which causes release of GDP from the switch protein.

Extracellular and intracellular messengers in the vertebrate retina: Based p... 9780845127537

Other intracellular signal cascades, named for their second messengers, are the Phosphoinositol, Arachidonic acid, and Cyclic GMP systems. The

corresponding transmission image is also shown. This occurs through the interactions with the backbone amide groups of a conserved threonine and glycine residue.

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