

Arrestins Pharmacology And Therapeutic Potential Handbook Of Experimental Pharmacology

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Arrestins Pharmacology And Therapeutic Potential

Introduction. This volume describes our current understanding of the biological role of visual and non-visual arrestins in different cells and tissues, focusing on the mechanisms of arrestin-mediated regulation of GPCRs and non-receptor signaling proteins in health and disease. The book covers wide range of arrestin functions, emphasizing therapeutic potential of targeting arrestin interactions with individual partners.

Arrestins - Pharmacology and Therapeutic Potential ...

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This volume in Springer's authoritative series on experimental pharmacology covers the molecular mechanisms and therapeutic implications of arrestin-mediated signaling, including the potential of re-engineered signaling proteins in the field of gene therapy.

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The book covers wide range of arrestin functions, emphasizing therapeutic potential of targeting arrestin interactions with individual partners. Biased Signaling in Physiology Pharmacology and Therapeutics

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The therapeutic potential of targeting β -arrestins is enormous, since disease-specific treatments could increase the safety and efficacy of GPCR-targeted therapeutics. On the other hand, given that a single β -arrestin subtype can modulate dozens of GPCRs, this may pose problems in drug discovery.

Frontiers | Therapeutic Potential of Targeting β -Arrestin ...

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Moreover, 7TMRs represent the most common target of therapeutic drugs used in current medical practice, accounting for a substantial fraction of all prescription drug sales worldwide. Three families of proteins mediate the function of the receptors: the heterotrimeric Gproteins, the G protein-coupled receptor kinases (GRKs), and the β -arrestins.

Introduction to Special Section on β -Arrestins | Annual ...

The capacity of arrestins to regulate GPCR signaling, via either control of GPCR desensitization/resensitization or G protein-independent signaling, renders arrestins an intriguing therapeutic target for asthma and other obstructive lung diseases.

GPCRs and Arrestins in Airways: Implications for Asthma ...

β -arrestins: regulatory role and therapeutic potential in opioid and cannabinoid receptor-mediated analgesia. Raehal KM(1), Bohn LM. Author information: (1)The Scripps Research Institute, 130 Scripps Way #2A2, Jupiter, FL, 33458, USA, kirsten.raehal@pharma.com.

β -arrestins: regulatory role and therapeutic potential in ...

Arrestins are ubiquitous regulators of cellular signaling pathways. Genome Biol. 7: 236. 10.1186/gb-2006-7-9-236 [PMC free article] [Google Scholar] Gurevich E. V., Gurevich V. V. (2014). in Therapeutic Potential of Small Molecules and Engineered Proteins.

GPCR Signaling Regulation: The Role of GRKs and Arrestins

Interestingly, the β -arrestin biased β -blocker carvedilol, a ligand that activates β 2AR- β -arrestin2 signaling while inactivating canonical β 2AR-Gs signaling, has been found to be beneficial in cancer prevention by virtue of blocking a key step in carcinogenesis, i.e., ERK translocation into the nucleus (Wisler et al., 2007; Cleveland et al., 2018).

Therapeutic Potential of Targeting β -Arrestin

The book covers wide range of arrestin functions, emphasizing therapeutic potential of targeting arrestin interactions with individual partners. Handbook of Experimental Pharmacology: Arrestins - Pharmacology and Therapeutic Potential (Hardcover)

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A review of its pharmacology and therapeutic potential in the management of nausea and vomiting induced by chemotherapy, radiotherapy or surgery Drugs . 1997 Aug;54(2):273-98. doi: 10.2165/00003495-199754020-00008.

Dolasetron. A review of its pharmacology and therapeutic ...

Pharmacology and therapeutic potential of interferons Pharmacol Ther. 2012 Jul;135(1):44-53. doi: 10.1016/j.pharmthera.2012.03.006. Epub 2012 Mar 28. Authors Peter M George 1 , Rekha Badiger, William Alazawi, Graham R Foster, Jane A Mitchell. Affiliation 1 Cardiothoracic ...

Pharmacology and therapeutic potential of interferons

The ability of β -arrestin-dependent signaling to control complex and multidimensional protein expression patterns makes this therapeutic strategy feasible, as treating complex age-related disorders will likely require therapeutics that can exert network-level efficacy profiles.

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