

Recombinant Human ARRB1

Cat. No. ARRB1-26620TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 13-122 of Human beta Arrestin 1 with an N terminal proprietary tag; Predicted MWt 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	<p>Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 1 is a cytosolic protein and acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. Besides the central nervous system, it is expressed at high levels in peripheral blood leukocytes, and thus the BARK/beta-arrestin system is believed to play a major role in regulating receptor-mediated immune functions. Alternatively spliced transcripts encoding different isoforms of arrestin beta 1 have been described.</p>
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SPNGKLTVYLGKRDFVDHIDLVPVDGVVLVDPEYKERR VYVTLTCAFRYGREDL DVLGLTFRKDLFVANVQSFPPAPE DKKPLTRLQERLIKKLGEHAYPFTFEIPPN
Sequence Similarities	Belongs to the arrestin family.

GENE INFORMATION

Gene Name	ARRB1 arrestin, beta 1 [Homo sapiens]
Official Symbol	ARRB1
Synonyms	ARRB1; arrestin, beta 1; ARR1; beta-arrestin-1; arrestin 2;
Gene ID	408
mRNA Refseq	NM_004041
Protein Refseq	NP_004032
MIM	107940
Uniprot ID	P49407
Chromosome Location	11q13

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Pathway

CXCR3-mediated signaling events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Clathrin derived vesicle budding, organism-specific biosystem;

Function

GTPase activator activity; angiotensin receptor binding; enzyme inhibitor activity; NOT histone acetyltransferase activity; insulin-like growth factor receptor binding;

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