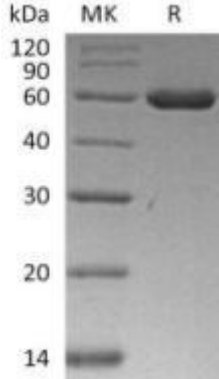


## Recombinant Human ARRB1

Catalog#:P01616 Derived from *E.coli*

<b>DESCRIPTION</b>	<p>Recombinant Human Beta-Arrestin 1 is produced by our <i>E.coli</i> expression system and the target gene encoding Met1-Arg418 is expressed with a 6His tag at the C-terminus.</p> <p><b>Accession#:</b> P49407</p> <p><b>Known as:</b> Beta-Arrestin-1; Arrestin Beta- 1; ARRB1; ARR1</p>
<b>FORMULATION</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at <math>\leq -20^{\circ}\text{C}</math>, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at 2-8<math>^{\circ}\text{C}</math> for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at <math>\leq -20^{\circ}\text{C}</math> for 3 months.</p>
<b>RECONSTITUTION</b>	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100<math>\mu\text{g}/\text{ml}</math>.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b>48.13kDa <b>AP Mol Mass:</b>60kDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> Less than 0.1ng/<math>\mu\text{g}</math> (1 EU/<math>\mu\text{g}</math>) as determined by LAL test.</p>
<b>BACKGROUND</b>	<p><math>\beta</math>-Arrestin-1 (ARRB1) is a cytoplasmic protein that belongs to the arrestin family. ARRB1 is expressed at high levels in peripheral blood leukocytes and the central nervous system. ARRB1 regulates agonist-mediated G-protein coupled receptor (GPCR) signaling by mediating both receptor desensitization and resensitization processes. ARRB1 acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. ARRB1 is believed to play a major role in regulating receptor- mediated immune functions. ARRB1 is involved in Toll-like receptor and IL-1 receptor signaling through the interaction with TRAF6.</p>
 <p><b>SDS-PAGE</b></p>	