

## ARRB1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	Arrestin $\beta$ -1; $\beta$ -Arrestin-1;Beta-Arrestin-1;ARR1;ARRB1;Arrestin Beta-1
Protein Construction:	Met1-Arg418
Species:	Human
Expression Host:	E. coli
Accession:	P49407
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Met1-Arg418

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

$\beta$ -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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481