

## Recombinant Human ADRA1A, His-tagged

**Cat. No.** ADRA1A-3314H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alpha-1A adrenergic receptor (ADRA1A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.Coli/Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 466                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1A-adrenergic receptor. Alternative splicing of this gene generates four transcript variants, which encode four different isoforms with distinct C-termini but having similar ligand binding properties.</p> |
| <b>Form</b>             | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Notes</b>            | <p>Small volumes of ADRA1A recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.</p>                                                                                                                                                                                                                                                                                                |

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|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store at -20 degree C. For extended storage, store at -20 or -80 degree C.                  |
| <b>Storage Buffer</b> | PBS pH 7.4, 50% glycerol                                                                    |
| <b>Warning</b>        | This product is for research use only. Not for use in diagnostic or therapeutic procedures. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ADRA1A adrenergic, alpha-1A-, receptor [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>     | ADRA1A                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | ADRA1A; adrenergic, alpha-1A-, receptor; ADRA1C; alpha-1A adrenergic receptor; ADRA1L1; alpha-1A adrenoceptor; alpha-1A adrenoreceptor; G protein coupled receptor; alpha-1C adrenergic receptor; adrenergic, alpha-1A-, receptor variant 1; adrenergic, alpha-1A-, receptor variant 3; adrenergic, alpha-1A-, receptor variant 5; adrenergic, alpha-1A-, receptor variant 8; ALPHA1AAR; |
| <b>Gene ID</b>             | 148                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_000680                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_000671                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>                 | 104221                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | P35348                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 8p21.2                                                                                                                                                                                                                                                                                                                                                                                   |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Adrenoceptors, organism-specific biosystem; Amine ligand-binding receptors, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway |
| <b>Function</b> | G-protein coupled receptor activity; adrenergic receptor activity; alpha1-adrenergic receptor activity; alpha1-adrenergic receptor activity; alpha1-adrenergic receptor activity; receptor activity; signal transducer activity;                                |

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