

## Recombinant Human ADCY6, GST-tagged

**Cat. No.** ADCY6-3178H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Adenylate cyclase type 6 (ADCY6)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.Coli/Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1168                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes adenylate cyclase 6, which is a membrane-associated enzyme and catalyzes the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). The expression of this gene is found in normal thyroid and brain tissues, as well as some tumors; and its expression is significantly higher in one hyperfunctioning thyroid tumor than in normal thyroid tissue. Alternative splicing generates 2 transcript variants. |
| <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>            | Small volumes of ADCY6 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.                                                                                                                                     |

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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>           | <a href="#">ADCY6 adenylate cyclase 6 [ Homo sapiens ]</a>                                                                                                                                        |
| <b>Official Symbol</b>     | ADCY6                                                                                                                                                                                             |
| <b>Synonyms</b>            | ADCY6; adenylate cyclase 6; adenylate cyclase type 6; AC6; adenylyl cyclase 6; ATP pyrophosphate-lyase 6; adenylate cyclase type VI; ca(2+)-inhibitable adenylyl cyclase; KIAA0422; DKFZp779F075; |
| <b>Gene ID</b>             | <a href="#">112</a>                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | <a href="#">NM_015270</a>                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_056085</a>                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">600294</a>                                                                                                                                                                            |
| <b>UniProt ID</b>          | <a href="#">O43306</a>                                                                                                                                                                            |
| <b>Chromosome Location</b> | 12q12-q13                                                                                                                                                                                         |
| <b>Pathway</b>             | Activation of GABAB receptors, organism-specific biosystem; Adenylate cyclase activating pathway, organism-specific biosystem; Adenylate cyclase inhibitory                                       |

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pathway, organism-specific biosystem; Aquaporin-mediated transport, organism-specific biosystem; Bi

**Function**

ATP binding; GTPase activity; adenylate cyclase activity; calcium- and calmodulin-responsive adenylate cyclase activity; metal ion binding; nucleotide binding; protein binding; receptor binding;

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