

## Product datasheet for **TP762336**

### **ADCY2 (NM\_020546) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human adenylate cyclase 2 (brain) (ADCY2), Arg822-End, with N-terminal His tag, expressed in E.coli, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding the region(Arg822-End) of ADCY2
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	30.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	50 mM Tris-HCl, pH 8.0, 8 M urea
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_065433</a>
<b>Locus ID:</b>	108
<b>UniProt ID:</b>	<a href="#">Q08462</a> , <a href="#">Q71UM8</a>
<b>RefSeq Size:</b>	6553
<b>Cytogenetics:</b>	5p15.31
<b>RefSeq ORF:</b>	3273
<b>Synonyms:</b>	AC2; HBAC2



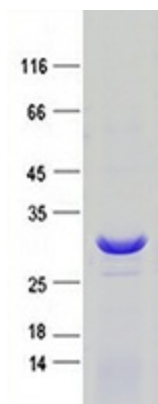
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**Summary:** This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This enzyme is insensitive to  $Ca^{2+}$ /calmodulin, and is stimulated by the G protein beta and gamma subunit complex. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Vascular smooth muscle contraction

**Product images:**



Purified recombinant protein ADCY2 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.