Recombinant ADCY2 protein (His tag)

Catalog Number	544867
Synonyms	ATP pyrophosphate-lyase 2; Adenylate cyclase type II; Adenylyl cyclase 2
Species	Human
Expression System	E. coli
Accession	Q08462
Molecular Weight	Predictes a molecular mass of 35.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	208-502
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 208-502 aa (Q08462) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Adenylate Cyclase Type 2 (ADCY2) Fragment (aa 208-502) is a high-purity protein designed for structural and biochemical research. This 295-amino acid fragment represents a stable, soluble region of the enzyme, ideal for investigating cAMP signaling mechanisms and G-protein-coupled receptor pathways. Adenylate Cyclase Type 2 (ADCY2) is a membrane-associated enzyme that catalyzes the conversion of ATP to cyclic AMP (cAMP), a crucial secondary messenger in cellular signaling. It functions downstream of G-protein-coupled receptors, including muscarinic acetylcholine receptors, and mediates changes in gene expression and interleukin-6 (IL6) production. The full-length protein is localized to the cell membrane and cytoplasm as a multi-pass membrane protein, playing a key role in intracellular communication and inflammatory responses.