

## Adenylate cyclase (Recombinant)

Cat No:HR4S0056

For research use only

### Overview

Quantity	
Gene Symbol	
Gene ID	
Accession	
Alternative Name	
Species	
Source	E.coli
Description	<p>Adenylate cyclase is an enzyme that converts adenosine triphosphate (ATP) into cyclic adenosine monophosphate (cAMP), a vital secondary messenger in numerous cellular signaling pathways. It plays a key role in mediating responses to extracellular signals by regulating cAMP levels, which in turn activate downstream effectors such as protein kinase A (PKA). Opiates have been shown to inhibit this enzyme and modify its activity. Additionally, calmodulin regulates adenylate cyclase by enhancing basal enzyme activity and amplifying activities involving GTP-binding proteins.</p>
Functions	
Formulation	Lyophilized from 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Solubility	
Appearance	Lyophilized powder
Molecular Weight	56 kDa
Purity	>85% (SDS-PAGE)
Concentration	
Shipping Condition	
Storage Condition	Store at -20°C/-80°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.