Adenylate cyclase (Recombinant)

Cat No:HR4S0056

For research use only

Overview

Quantity	
Gene Symbol	
Gene ID	
Accession	
Alternative Name	
Species	
Source	E.coli
Description	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.
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 mutiple use. Avoid repeated freeze-thaw cycles.