

Recombinant Human Adrenergic, Beta, Receptor Kinase 1, His-tagged

Cat. No. ADRBK1-357H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanADRBK1 with His Tag is a serine/threonine kinase.
Species	Human
Source	Insect Cells
Description	Many of the Gprotein-coupled receptors are known tobe phosphorylated by G protein-dependent receptor kinases (GRKs). ADRBK1 (also referred to as β ARK or BARK) is a serine/threonine intracellular kinase. It is activated by PKA and its targetis the beta adrenergic receptor. It is one method by which the cell willdesensitize itself from epinephrine overstimulation.
Form	Liquid in 50 mMTris-HCl, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02%. Triton X-100 + 2 mM DTT+ 50% glycerol.
Molecular Weight	82.3 kDa
Concentration	0.5 mg/ml
Purity	> 95% asdetermined by SDS-PAGE analysis.
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	ADRBK1

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GENE INFORMATION

Gene Name	ADRBK1 adrenergic, beta, receptorkinase 1 [Homo sapiens]
Synonyms	ADRBK1; adrenergic,beta, receptor kinase 1; GRK2; BARK1; FLJ16718; BETA-ARK1; beta-adrenergicreceptor kinase 1; beta-ARK-1; OTTHUMP00000235171; G-protein coupled receptorkinase 2; EC 2.7.11.15; BETA-ARK1; EC 2.7.11
Gene ID	156
mRNA Refseq	NM_001619
Protein Refseq	NP_001610
MIM	109635
UniProt ID	P25098
Chromosome Location	11q13.1
Pathway	CXCR4-mediatedsignaling events; Ca-dependent events; CaM pathway; Calmodulin inducedevents; Chemokine signaling pathway; DAG and IP3 signaling; Downstream signaltransduction; EGFR interacts with phospholipase C-gamma; Endocytosis; GPCRdownstream signaling; NGF signalling via TRKA from the plasma membrane;Opioid Signalling; PLC beta mediated events; Phospholipase C-mediatedcascade; Signaling by EGFR; Signalling by NGF; Thromboxane A2 receptorsignaling
Function	ATP binding; Edg-2lysophosphatidic acid receptor binding; G-protein coupled receptor kinaseactivity; alpha-2A adrenergic receptor binding; beta-adrenergic

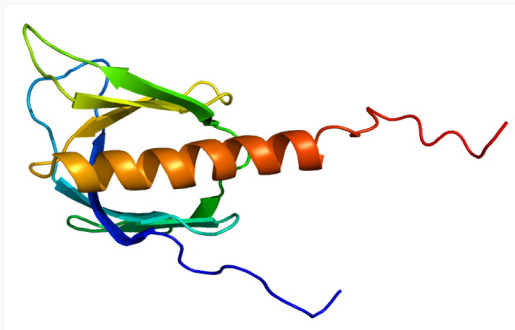
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receptorkinase activity; nucleotide binding; protein binding; protein kinaseactivity;
signal transducer activity

PDB rendering
basedon 1bak.



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