



# Recombinant Rat Rhodopsin kinase (Grk1)

<b>Product Code</b>	CSB-EP723596RA-B
<b>Abbreviation</b>	Grk1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q63651
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MDFGSLETVV ANSAFIAARG SFDGSSTPSS RDKKYLAKLR LPPLSKCEGL RDSISLEFDN LCSEQPIGKR LFQQFLKTDE RHVPALELWK DIEDYDTADD DLRPQKAQAI LAEYLDPQGT LFCNFLDQGM VARVKEGPTG SQDGLFQPLL QATLEHLSQG PFQEYLGSLY FLRFLQWKWL EAQPIGEDWF LDFRVLGKGG FGEVSACQMK ATGKMYACKK LNKRLKRRK GYQGAIVEKR ILAKVHSRFI VSLAYAFETK TDLCLVMTIM NGGDVRYHIY NVDEENPGFP EPRAIYYTAQ IISGLEHLHQ RRIVYRDLKP ENVLLDNDGN IRISDLGLAV ELKEGQNKTK GYAGTPGFMA PELLRGEEYD FSDYFALGV TLYEMIAARG PFRARGEKVE NKELKQRIIS EPVKYPEKFS QASKDFCEQL LEKDPEKRLG FRDGTCDALR ANVLFKDISW RQLEAGMLIP PFIPDSRTVY AKNIQDVGAF STVKGVVFDK ADTEFFQEFA SGNCSIPWQE EMIETGFFGD LNVWRPDGQM PDDMKGITVE EAAPTAKSGM C
<b>Source</b>	E.coli
<b>Target Names</b>	Grk1
<b>Protein Names</b>	Recommended name: Rhodopsin kinase Short name= RK EC= 2.7.11.14 Alternative name(s): G protein-coupled receptor kinase 1
<b>Expression Region</b>	1-561
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2).
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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