

PDE1C Protein, Rat, Recombinant (His)

General Information

Synonyms:	Dual specificity calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1C; Pde1c2; Cam-PDE 1C; 5'-cyclic nucleotide phosphodiesterase 1C; Pde1c
Protein Construction:	1-768 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q63421
Molecular Weight:	92.6 kDa (predicted)
AA Sequence:	<p>MTDTSHKKEGFKKCRSATFSIDGYSFTIVANEAGDKNARPLARFSRSKSNCLWNSLIDGLTGNVKEKPRPTIV QDTRPPEEILADELPQLDSPEALVKTSFRLRSLVKQLERGEASVVDLKNLEYAATVLESVYIDETRRLLDTEDE LSDIQSDAVPSEVRDWLASTFTRQMGMLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGLSYPPAVID ALKDVTWSFDVFSLNEASGDHALKFIFYELLTRYDLISRFKIPISALVSFVEALEVGYSKHKNPYHNLMAHAD VTQTVHYLLYKTGVANWLTELEIFAIIFSAAIHDYEHTGTTNNFHIQTRSDPAILYNDRSVLENHHLAAYRLLQ EDEEMNILVNLSKDDWREFRTLVIEMVMATDMSCHFQQIKAMKTALQPEAIEKPKALSMLHTADISHPAK AWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLCDRKSTMVAQSQVGFIDFIVEPTFTVLTDMTEKIVSPLIDE TSQTGGTGQRRSSLNSINSSDAKRSGVKSSGSEGSAPINNSVIPVDYKSFKATWTEVVQINRERWRKVPKEE KAKKEAEEKARLAAEEKQKEMEAKSQAEQGTTSKAEKKTSGETKGVNGTRTSKGDNPRGKNSKGDKAGEK QQNGDLKDGKNKADKKDHSNTGNESKKADGTKKRSHGSPAPSTSSTSRLLTPVIKPLRHFKRPAAYASSSYA PSVPKKTDHPVRYKMLDQRIKIKKIQNISHHWK</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Has a high affinity for both cAMP and cGMP. Modulates the amplitude and duration of the cAMP signal in sensory cilia in response to odorant stimulation, hence contributing to the generation of action potentials. Regulates smooth muscle cell proliferation. Regulates the stability of growth factor receptors, including PDGFRB.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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