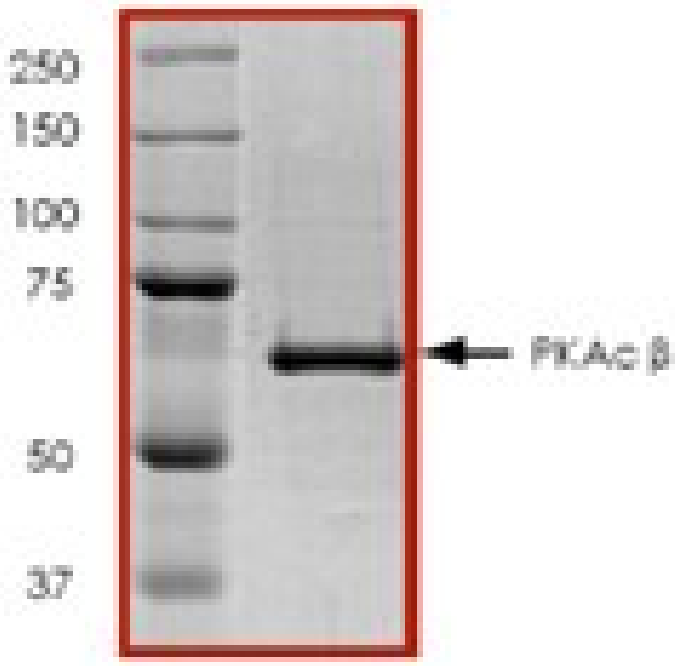
# PKA Catalytic β (human), (recombinant) (GST-tag)

**Recombinant human PKA catalytic β (GST-tag) that phosphorylates target proteins as a cAMP-dependent Ser/Thr kinase**

PKA belongs to the cAMP-dependent protein kinase (PKA) family. PKA isoforms type I and II include respective dimeric R subunits RI and RII which each produce two subunits designated RI-α, RI-β, RII-α, and RII-β. The catalytic subunit also consists of more than one gene product. Researchers cloned mammalian catalytic subunit C-α, C-β, and C-γ cDNAs. The catalytic subunit C-β belongs to the Ser/Thr protein kinase family. Activated by cAMP, PKA C-β resides in the cytoplasm (inactive holoenzyme and monomeric catalytic subunit), and translocates into the nucleus (monomeric catalytic subunit). A number of inactive tetrameric holoenzymes result from the combination of homo- or heterodimers of the different regulatory subunits associated with the two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. PKA C-β acts as a p75 neurotrophin receptor (NTR)-interacting protein, which phosphorylates p75 (NTR) at Ser304.

## Manuals, SDS & CofA

View Online »




SDS-PAGE analysis of PKA Catalytic β (human), (recombinant).

## Handling & Storage

| | |
|---|---|
| **Long Term Storage** | -80°C |
| **Shipping** | Dry Ice |

## Regulatory Status RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | cAMP-dependent protein kinase catalytic subunit β, Protein kinase A C-β |
| **Formulation** | Liquid. In 50mM Tris-HCl, pH 7.5, containing 150mM sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, and 25% glycerol. |
| **MW** | ~65kDa |
| **Purity** | ≥80% (SDS-PAGE) |
| **Purity Detail** | Purified by SDS-PAGE / densitometry. |
| **Source** | Produced in Sf9 insect cells using an N-terminal GST-tag. Produced in a baculovirus expression system. |
| **UniProt ID** | P22694 |

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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