

□ Cat # RP-667

Recombinant Human Casein Kinase 2 beta

Size: □ 3 ug

□ 10 ug

Synonyms:

Casein kinase II subunit beta, CK II beta, Phosvitin, G5a, CK2B, CK2N, CSK2B, MGC138222, MGC138224.

Introduction:

The Casein kinase 2 (EC2.7.11.1) is a serine/threonine-selective protein kinase that is a tetramer of two alpha subunits and two beta subunits. The alpha subunits have the catalytic kinase domain. Casein kinase 2 has been implicated in cell cycle control, DNA repair, regulation of the circadian rhythm and other cellular processes.

Casein kinase 2 activity has been reported to be activated following Wnt signaling pathway activation. A Pertussis toxin-sensitive G protein and Dishevelled appear to be an intermediary between Wnt-mediated activation of the Frizzled receptor and activation of casein kinase 2. Mice that lack casein kinase 2 alpha prime have a defect in the morphology of developing sperm.

Description:

Casein Kinase 2 beta Human Recombinant is a non-glycosylated polypeptide having a molecular mass of 24.9 kDa. Casein Kinase 2 is purified by proprietary chromatographic techniques.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

CK2b lyophilized from 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 1mM EDTA, protease inhibitor cocktail, pH 8.5.

Solubility:

Solubilize in distilled H₂O or 50% glycerol.

Unit definition:

1U = 1 μmol/min at 37 degree C) using the synthetic peptide RRRDDDSDDD.

Purity:

Greater than 95% as determined by SDS-PAGE.

Biological Activity:

Specific activity > 1U/mg.

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage..

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