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CSNK2B Human, Active

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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

CSNK2B lyophilized from 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 1mM EDTA, protease inhibitor cocktail, pH 8.5.

Stability:

Lyophilized CSNK2B althoµgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CSNK2B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

Solubilize in distilled H2O or 50% glycerol.

Introduction:

The Casein kinase 2 (EC2.7.11.1) is a serine/threonine-selective protein kinasethat 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 cyclecontrol, DNA repair, regulation of the circadian rhythmand other cellular processes.Casein kinase 2 activity has been reported to be activated following Wnt signaling pathwayactivation. A Pertussis toxin-sensitive G proteinand Disheveled 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.

Biological Activity:

Specific activity > 1U/mg.

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