



Product Datasheet

Product Name Casein Kinase 2 alpha Human Recombinant, His
Cata No CB500831
Source *Escherichia Coli.*
Synonyms

Description

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.

CK2A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain encoding the sequence of 411 amino acids and having a molecular mass of 47.3 kDa.

Casein Kinase 2 alpha subunit is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Formulation

CSNK2A1 is supplied in 20mM Tris pH-8.0 , 500mM NaCl, 1mM DTT and 50% glycerol.

Sequence

MGSSHHHHHH SSGLVPRGSH MSGPVPSRAR
VYTDVNTHRP REYWDYESHV
VEWGNQDDYQLVRKLGRGKY SEVFEAINIT
NNEKVVKIL KPVKKKKIKR EIKILENLRG
GPNITLADI VKDPVSRTPA LVFEHVNNTD
FKQLYQTLTD YDIRFYMYEI LKALDYCHSM
GIMHRDVKPH NVMIDHEHRK LRLIDWGLAE
FYHPGQEYNV RVASRYFKGP ELLVDYQMYD
YSLDMWSLGC MLASMIFRKE PFFHGHNDYD
QLVRIAKVLG TEDLYDYIDK YNIELDPRFN
DILGRHSRKRWERFVHSENQ HLVSPALDF
LDKLLRYDHQ SRLTAREAME HPYFYTVVKD
QARMGSSSMP GGSTPVSSAN MMSGISSVPT
PSPLGPLAGS PVIAAANPLG MPVPAAGAQA Q.