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## Product Data Sheet

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Product Name: CSNK2A1 Human  
 Cat. No.: GP22476  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Casein kinase II subunit alpha; EC 2.7.11.1; CK II; CK2A1; CKII alpha; CSNK2A1; PKCK2; CSK21.		
Formulation	CSNK2A1 is supplied in 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 500µM PMSF, 50% glycerol, pH 8.5.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

### Background

Casein Kinase 2 alpha 1 Human Recombinant is a non-glycosylated polypeptide having a molecular mass of 45.1 kDa. Casein Kinase 2 is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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