

## Casein Kinase 1 alpha 1 Human Recombinant

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|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item Number</b>                       | rAP-0871                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>                          | Casein kinase I isoform alpha, CKI-alpha, CK1, CSNK1A1, HLCDGP1, PRO2975.                                                                                                                                                                                                                                                                                         |
| <b>Description</b>                       | CSNK1A1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 357 amino acids (1-337) and having a molecular mass of 41kDa. CSNK1A1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.                                                                             |
| <b>Uniprot Accession Number</b>          | P48729                                                                                                                                                                                                                                                                                                                                                            |
| <b>Amino Acid Sequence</b>               | MGSSHHHHHH SSGLVPRGSH MASSSGSKAE FIVGGKYKLV RKIGSGSFGD IYLAINITNG EEVAV-KLESQ KARHPQLLYE SKLYKILQGG VGIPHIRWYG QEKDYNVLM DLLGPSLEDL FNFCSSRRFTM KTVLMLADQM ISRIEYVHTK NFIHRDIKPD NFLMGIGRHC NKLFLIDFGL AKKYRDNRTNR QHIPYREDKN LTGTARYASI NAHLGIEQSR RDDMESLGYV LMYFNRTSLP WQGLKAATKK QKYEKISEKK MSTPVEVLCK GFPAEFAMYL NYCRGLRFEE APDYMRLRQL FRILFRTLNH QYDYTFDWTM |
| <b>Source</b>                            | E.coli.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Physical Appearance and Stability</b> | Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.                                                                                         |
| <b>Formulation and Purity</b>            | The CSNK1A1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol. Greater than 80% as determined by SDS-PAGE.                                                                                                                                                                                                                   |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                           |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**