

Recombinant Human CHKA

Cat. No. CHKA-26903TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Choline kinase alpha protein with an N terminal proprietary tag; predicted mwt: 76.34 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	457 amino acids
Description	The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. The protein encoded by this gene is the initial enzyme in the sequence and may play a regulatory role. The encoded protein also catalyzes the phosphorylation of ethanolamine. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	76.340kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MKTKFCTGGAEPSPLGLLLSCGSGSAAPAPGVGQQRDAA SDLESKQLGGQQPPL
 ALPPPPPLPLPLPQPPPPQPPAD EQPEPRTRRRAYLWCKEFLPGAWRGLREDE
 FHISVIRGGL SNMLFQCSPDTTATLGDEPRKVLLRLYGAILQMRSCKE GSEQAQ
 KENEFQGAEMVLESVMFAILAERSLGPPLYGIF PQGRLEQFIPSRRLDTEELSLPDI
 SAEIAEKMATFHGMKM PFNKEPKWLFGTMEKYLKEVLRIFTEESRIKKLHKLLSY N
 LPLELENLRSLLESTPSPVVFCHNDCQEGNILLLEGREN SEKQKLMLIDFEYSSYNY
 RGFDIGNHFCEWMYDYSYEKYP FFRANIRKYPTKKQQLHFISYLPQAFQNDFENLST
 EEKSI IKEEMLLEVNRFALASHFLWGLWSIVQAKISSIEFGYMDY AQARFDAYFHQK
 RKLGV

GENE INFORMATION

Gene Name	CHKA choline kinase alpha [Homo sapiens]
Official Symbol	CHKA
Synonyms	CHKA; choline kinase alpha; CHK, choline kinase; CKI;
Gene ID	1119
mRNA Refseq	NM_001277
Protein Refseq	NP_001268
MIM	118491
Uniprot ID	P35790
Chromosome Location	11q13.1

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Pathway

Acetylcholine Synthesis, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylcholine (PC) biosynthesis, choline =>

Function

ATP binding; choline binding; choline kinase activity; drug binding; ethanolamine kinase activity;

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