



Recombinant Human Inositol-trisphosphate 3-kinase A (ITPKA)

Product Code	CSB-YP011909HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P23677
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MTLPGGPTGM ARPGGARPCS PGLERAPRRS VGELRLLFEA RCAAIAAAAA AGEPRARGAK RRGQVFNGL PRAPPAPVIP QLTVTAEED VPPTSPGPPE RERDCLPAAG SSHLQQPRRL STSSVSSTGS SSLLEDEDD LLSDESRSR GNVQLEAGED VGQKNHWQKI RTMVNLPVIS PFKKRYAWVQ LAGHTGSFKA AGTSGILIKR CSEPERYCLA RLMADALRGC VPAFHGVVER DGESYLQLQD LLDGFDFPCV LDCKMGVRTY LEEELTKARE RPKLRKDMYK KMLAVDPEAP TEEEHAQRAV TKPRYMQWRE GISSSTTLGF RIEGIKKADG SCSTDFKTR SREQVLRVFE EFVQGDDEVL RRYLNRLQQI RDTLEVSEFF RRHEVIGSSL LFVHDHCHRA GVWLIDFGKT TPLPDGQILD HRRPWEEGNR EDGYLLGLDN LIGILASLAE R
Source	Yeast
Target Names	ITPKA
Protein Names	Recommended name: Inositol-trisphosphate 3-kinase A EC= 2.7.1.127 Alternative name(s): Inositol 1,4,5-trisphosphate 3-kinase A Short name= IP3 3-kinase A Short name= IP3K A Short name= InsP 3-kinase A
Expression Region	1-461
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P4. The activity of the inositol 1,4,5-trisphosphate 3-kinase is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. It is also a substrate for the cyclic AMP-dependent protein kinase, calcium/calmodulin-dependent protein kinase II, and protein kinase C in vitro. ITPKA and ITPKB are 68% identical in the C-terminus region.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.