

Serine/threonine-protein kinase Aurora-2 (AUR2), Recombinant Protein

Cat RP01805

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Serine/threonine-protein kinase Aurora-2 (AUR2)

Product Gene Name

AUR2 recombinant protein

Product Synonym Gene Name

AUR2

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MLYQAASEAA QKRWTTSDFD IGKPLGRGKF GHVYLAREKR SDHIVALKVL FKAQLQQSQV EHQLRREVEI
QSHLRHPNIL RLYGYFYDQK RVYLILEYAV RGELYKELQK CKYFSERRAA TYVASLARAL IYCHGKHVIH
RDIKPENLLI GAQGELKIAD FGWSVHTFNR RRTMCGTLDY LPPEMVESVE HDASVDIWSL GILCYEFLYG
VPPFEAREHS ETYKRIVQVD LKFPKPPIVS SSAKDLISQM LVKESTQRLA LHKLLEHPWI VQNADPSGLY RG

Sequence Positions

1-282, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

33,310 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Serine/threonine-protein kinase

NCBI Accession

NP_180159.2

NCBI GI

79563343

NCBI GenBank Nucleotide

NM_128148.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

817129

NCBI Official Full Name

ataurora2

NCBI Official Symbol

AUR2

NCBI Official Synonym Symbols

AtAUR2; ataurora2; F17H15.9; F17H15_9

NCBI Protein Information

ataurora2

NCBI Summary

Encodes a member of a family of Ser/Thr kinases whose activities peak during cell division. Transcripts are abundant in tissues rich in dividing cells like roots and flowers but are low or absent in fully expanded leaves and stems. In interphase cells, the protein is predominantly nuclear. During mitosis, the protein associates with plant-specific cytoskeletal structures (preprophase band, phragmoplast, nascent cell plate) that are necessary for cytokinesis as well as with the microtubule spindle.

UniProt Gene Name

AUR2

UniProt Synonym Gene Names

AtAur2

UniProt Protein Name

Serine/threonine-protein kinase Aurora-2

UniProt Synonym Protein Names

Aurora-like kinase 2

UniProt Primary Accession

Q683C9

UniProt Secondary Accession

O82309

UniProt Comments

Phosphorylates specifically 'Ser-10' of histone H3 in vitro. Associates with cytoskeletal structures that are necessary for cytokinesis and with the microtubule spindle. Might colocalize with gamma-tubulin and function in microtubule organizing centers (MTOCs).

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