



# Recombinant Human Multifunctional protein ADE2 (PAICS)

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| <b>Product Code</b>      | CSB-EP017397HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P22234  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | ATAEVLNIG KKLYEGKTK E VYELLDSPGK VLLQSKDQIT AGNAARKNHL<br>EGKAAISNKI TSCIFQLLQE AGIKTAFTRK CGETAFIAPQ CEMPIEWVC<br>RRIATGSFLK RNPGVKEGYK FYPPKVELFF KDDANNDPQW SEEQLIAAKF<br>CFAGLLIGQT EVDIMSHATQ AIFEILEKSW LPQNCTLVDM KIEFGVDVTT<br>KEIVLADVID NDSWRLWPSG DRSQQKDKQS YRDLKEVTPE GLQMVKKNFE<br>WVAERVELLL KSESQCRVVV LMGSTSDLGH CEKIKKACGN FGIPCELRVT<br>SAHKGPDETL RIKAEYEGDG IPTVFVAVAG RSNGLGPVMS GNTAYPVISC<br>PPLTPDWGVQ DVWSSLRLPS GLGCSTVLSP EGSAQFAAQI FGLSNHLVWS<br>KLRASILNTW ISLKQADKKI RECNL  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | PAICS   |
| <b>Protein Names</b>     | Recommended name: Multifunctional protein ADE2 Including the following 2 domains: Phosphoribosylaminoimidazole-succinocarboxamide synthase EC=6.3.2.6 Alternative name(s): SAICAR synthetase Phosphoribosylaminoimidazole carboxyla   |
| <b>Expression Region</b> | 2-425   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | This gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes an enzyme in the same pathway, and transcription of the two genes is coordinately regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Reconstitution</b>    | 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.

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### 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.