

## Phosphoribosylaminoimidazole Carboxylase Human Recombinant

<b>Item Number</b>	rAP-1875
<b>Synonyms</b>	PAICS, Phosphoribosylaminoimidazole Carboxylase Phosphoribosylaminoimidazole, Succinocarboxamide Synthetase, PAIS, AIRC, ADE2, ADE2H1, AIR Carboxylase, Multifunctional Protein ADE2, Multifunctional Protein ADE2H1, SAICAR Synthetase.
<b>Description</b>	PAICS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 448 amino acids (1-425) and having a molecular mass of 49.5kDa. PAICS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P22234
<b>Amino Acid Sequence</b>	MGSSHHHHH SSGLVPRGSH MGSMATAEVL NIGKKLYEGK TKEVYELLD S PGKVLQSKD QITAGNAARK NHLEGKAAIS NKITSCIFQL LQEAGIKTAF TRKCGETAFI APQCEMPIE WVCRRITGS FLKRNPVGKE GYKFYPPKVE LFFKDDANND PQWSEEQLIA AKFCFAGLLI GQTEVDIMSH ATQAI FEILE KSWLPQNCTL VDMKIEFGVD VTTKEIVLAD VIDNDSWRLW PSGDRSQQKD KQSYRDLKEV TPEGLQMVKK NFEWVAERVE LLLKSESQCR VVVLMSGTSD LGHCEKIKKA CGNFGIPCEL RV TSAHKGP D ETLRIKAEYE GDGIPTVFVA VAGRSNGLGP VMSGNTAYPV ISCPPLTPDW GVQDVVWS- SLR LPSGLGCSTV LSPEGSAQFA AQIFGLSNHL VWSKLRASIL NTWISLQKAD KKIRECNL.
<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 PAICS solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT. Greater than 90% 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**