

Recombinant Full Length Human ATP5PB Protein, His tagged

Cat. No. ATP5PB-10HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit B1 (ATP5F1), nuclear gene encoding mitochondrial protein, full length, with N-terminal HIS tag, expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-256 aa
Description	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the b subunit of the proton channel.
Form	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Molecular Mass	28.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	>0.05 µg/µL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	ATP5PB ATP synthase peripheral stalk-membrane subunit b [Homo sapiens (human)]
Official Symbol	ATP5PB
Synonyms	ATP5PB; ATP synthase peripheral stalk-membrane subunit b; PIG47; ATP5F1; ATP synthase peripheral stalk subunit b, mitochondrial; ATP synthase B chain, mitochondrial; ATP synthase F(0) complex subunit B1, mitochondrial; ATP synthase proton-transporting mitochondrial F(0) complex subunit B1; ATP synthase subunit b, mitochondrial; ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit B1; ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit b; ATP synthase, H ⁺ transporting, mitochondrial Fo complex subunit B1; ATPase subunit b; H ⁺ -ATP synthase subunit b; cell proliferation-inducing protein 47
Gene ID	515
mRNA Refseq	NM_001688
Protein Refseq	NP_001679
MIM	603270

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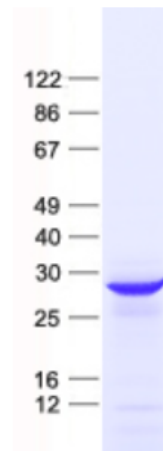
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UniProt ID

P24539

SDS-PAGE

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