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# NAT6 Human

**Catalog #:**ENPS-417

For research use only.

**Description:**Recombinant Human NAT6 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 328 amino acids (1-308 a.a.) and having a molecular mass of 35.9 kDa. NAT6 is fused to 20 amino acid His Tag at N-terminus and purified by conventional chromatography techniques.

**Synonyms:**Protein fusion-2, FUS2, FUS-2, NAT6, N-acetyltransferase 6, Protein fus-2.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MQELTLSPGP AKLTPTLDPT HRMELILSTS PAELTLDPAC QPKLPLDSTC QPEMTFNPGP TELTLDPEHQ PEETPAPSLA ELTLEPVHRR PELLDACADL INDQWPRSRT SRLHSLGQSS DAFPLCLMLL SPHPTLEAAP VVVGHARLSR VLNQPQSLLV ETVVVARALR GRGFGRRLME GLEVFARARG FRKLHLTTHD QVHFYTHLGY QL

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**
The NAT6 protein solution contains 20mM Tris-HCl, pH-8, 100mM NaCl and 20% Glycerol.

**Stability:**
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.

**Usage:**
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**Introduction:**
NAT6 is an enzyme that catalyzes the transfer of acetyl groups from acetyl-CoA to acrylamines. NAT6 is located mainly in the cytoplasm and its activity has been recognized by its feasibility to acetylate the N-terminus of proteins using a ping-pong-like mechanism and by its substrate specificity. Given that the NAT6 gene maps to the chromosomal region 3p21.3, which includes at least one tumor suppressor gene, the function of NAT6 plays an important role in cancer.

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