



Recombinant Protein Technical Manual

**Recombinant Human NUDT5/ADP-sugar
Pyrophosphatase Protein (His Tag)**
RPES4610

Product Data:

Product SKU: RPES4610

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9UUK9

Protein Information:

Molecular Mass: 26.3 kDa

AP Molecular Mass: 35 kDa

Tag: N-His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 50mM Tris, 10% glycerol, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: hYSAH1;YSA1;YSA1H;YSAH1

Immunogen Information:

Sequence: Glu2-Phe219

Background:

ADP-sugar Pyrophosphatase, also known as NUDT5, eliminates toxic nucleotide derivatives from the cell and regulate the levels of important signaling nucleotides and their metabolites. NUDT5 functions as a MutT-related protein and catalyzes the hydrolysis of 8-oxoGDP to 8-oxoGMP, thereby preventing misincorporation of 8-oxoGua into RNA. NUDT5 may play significant roles in regulating the G1-S transition in mammalian cells. It can also hydrolyze other nucleotide sugars with low activity.