

Recombinant Human NUDT5 Protein

Catalog No.: RP03258 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	11164	Q9UKK9

Tags

N-His

Synonyms

NUDT5; NUDIX5; HSPC115; ADP-sugar pyrophosphatase; Nudix motif 5; YSA1H; YSA1

Product Information

Source	Purification
E.coli	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
25.29 kDa	30-35 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

NUDIX hydrolase type 5 (NUDT5) is a kind of ADP-ribose pyrophosphatase and nucleotide metabolizing enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate. In absence of diphosphate, NUDT5 hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP. In presence of diphosphate, NUDT5 mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate.

Basic Information

Description

Recombinant Human NUDT5 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Phe219) of human NUDT5 (Accession #Q9UKK9) fused with His tag at the N-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Contact

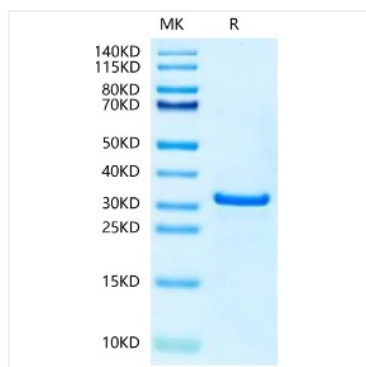
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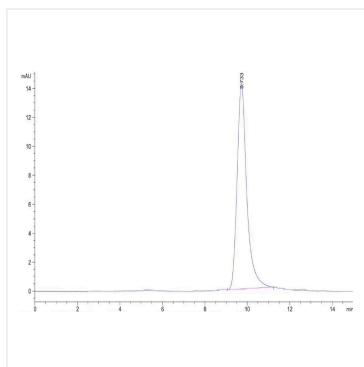


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Validation Data



Recombinant Human NUDT5 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human NUDT5 is greater than 95% as determined by SEC-HPLC.