

RP03258

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Recombinant Human NUDT5 Protein

Catalog No.: RP03258

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
E.coli	11164	Q9UUK9

Tags

N-His

Synonyms

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

Product Information

Source

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.

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

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

Background

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 #Q9UUK9) fused with His tag at the N-terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at -20°C. Avoid repeated freeze/thaw cycles.

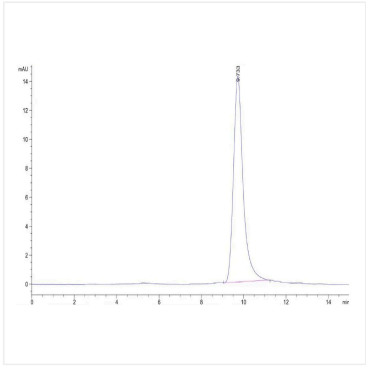
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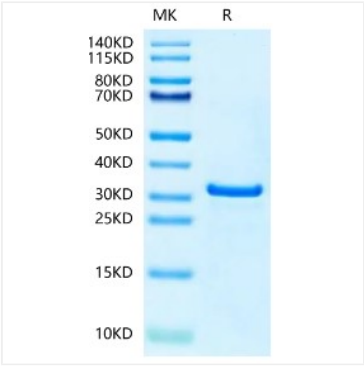


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Validation Data



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



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