

Recombinant Human PPP1R8

Cat. No. PPP1R8-26964TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human NIPP1, Isoform Gamma with N-terminal proprietary tag. Predicted MW 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene, through alternative splicing, encodes three different isoforms. Two of the protein isoforms encoded by this gene are specific inhibitors of type 1 serine/threonine protein phosphatases and can bind but not cleave RNA. The third protein isoform lacks the phosphatase inhibitory function but is a single-strand endoribonuclease comparable to RNase E of E. coli. This isoform requires magnesium for its function and cleaves specific sites in A+U-rich regions of RNA.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Ubiquitously expressed, with highest levels in heart and skeletal muscle, followed by brain, placenta, lung, liver and pancreas. Less abundant in kidney. The concentration and ratio between isoforms is cell-type dependent. Isoform Alpha (>90%) and isoform
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RRMQNFAFSGGLYGGLPPTHSEAGSQPHGIHGTLIGGLPMPYPNLAPDVDLTPVV PSAVNMNPAPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLLI
Sequence Similarities	Contains 1 FHA domain.

GENE INFORMATION

Gene Name	PPP1R8 protein phosphatase 1, regulatory subunit 8 [Homo sapiens]
Official Symbol	PPP1R8
Synonyms	PPP1R8; protein phosphatase 1, regulatory subunit 8; protein phosphatase 1, regulatory (inhibitor) subunit 8; nuclear inhibitor of protein phosphatase 1; activator of RNA decay; ard 1; ARD1; NIPP 1; NIPP1; nuclear subunit of PP 1; PRO2047; protein phosphatase 1, regulatory subunit 8
Gene ID	5511
mRNA Refseq	NM_002713
Protein Refseq	NP_002704
MIM	602636
Uniprot ID	Q12972

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Chromosome Location	1p35.3
Function	DNA binding; RNA binding; endonuclease activity; hydrolase activity; protein binding;