

Datasheet for ABIN7548089
GNPDA2 Protein (AA 1-276) (His tag)



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Overview

Quantity:	1 mg
Target:	GNPDA2
Protein Characteristics:	AA 1-276
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNPDA2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GNPDA2 Protein expressed in mammalien cells.
Sequence:	MRLVILDNYD LASEWAAKYI CNRIIQFKPG QDRYFTLGLP TGSTPLGCYK KLIEYHKNGH LSFKYVKTFN MDEYVGLPRN HPESYHSYMW NNFFKHIDID PNAHILDGN AADLQAECDA FENKIKEAGG IDLFVGGIGP DGHIAFNEPG SSLVSRTRLK TLAMDTILAN AKYFDGDLSK VPTMALTGVG GTVMDAREVM ILITGAHKAF ALYKAIEEGV NHMWTVSAFQ QHPRTIFVCD EDATLELRVK TVKYFKGLMH VHNKLVDFPLF SMKDGN Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	GNPDA2
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Alternative Name:	GNPDA2 (GNPDA2 Products)
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Background:	Glucosamine-6-phosphate isomerase 2 (EC 3.5.99.6) (Glucosamine-6-phosphate deaminase 2) (GNPDA 2) (GlcN6P deaminase 2) (Glucosamine-6-phosphate isomerase SB52),FUNCTION: Catalyzes the reversible conversion of alpha-D-glucosamine 6-phosphate (GlcN-6P) into beta-D-fructose 6-phosphate (Fru-6P) and ammonium ion, a regulatory reaction step in de novo uridine diphosphate-N-acetyl-alpha-D-glucosamine (UDP-GlcNAc) biosynthesis via hexosamine pathway. Deamination is coupled to aldo-keto isomerization mediating the metabolic flux from UDP-GlcNAc toward Fru-6P. At high ammonium level can drive amination and isomerization of Fru-6P toward hexosamines and UDP-GlcNAc synthesis. Has a role in fine tuning the metabolic fluctuations of cytosolic UDP-GlcNAc and their effects on hyaluronan synthesis that occur during tissue remodeling. {ECO:0000269 PubMed:12616532, ECO:0000269 PubMed:26887390}.
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Molecular Weight:	31.1 kDa
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UniProt:	Q8TDQ7
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Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
