

Enzymes

Protein Catalogue

PORCN - Protein-cysteine N-palmitoyltransferase porcupine

Product specification

Acronym: PORCN

Class: Enzyme

Origin: Human

Molecular weight: 51 kDa

Application: Screening & display technologies, Antibody development, Structural Biology

Purity: >50%

Activity: To be tested

Length: Full Length

TMD: 8

Biological function: Wnt signaling pathway

Product description

PORCN is an endoplasmic reticulum (ER) enzyme, belonging to the « membrane bounded O-acyltransferase » family. It allows the palmitoylation of proteins involved in the Wnt (Wingless and int homologue) pathway. In the ER, the active site of PORCN presents a histidine residue which has to be protonated for the protein activity.

Protein Source: hPORCN wild type protein (Human PORCN)

Fig.1: AA sequence of hPORCN protein

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10      20      30      40      50
NATFSRQEF  QQLLQCCLLP TAQQGLDQIN LLLAECLACR LLNRLGLPSY
60      70      80      90     100
LRI AGTVAGG  FFSLYHFFQL IMVWVYLLCL LCYLVLFCCR HISSIRGVPLS
110     120     130     140     150
VTILYLLMS  EHHMNDVTW  HKHRGAQHIV AMKAVSLGFD LDRGEVSTVP
160     170     180     190     200
SPVEFMGYLY FVGTIVFGPW ISFHSYLQAV QGRPLSCRML QKVARSLALA
210     220     230     240     250
LLCLVLSILY GPYLHPYHLP LNSGKLLRNK KKCAQGIHYR VLRAYESAVS
260     270     280     290     300
EHEMNYFVGH ISEKIDILAG RGH FFKIPI HMDI EVNEPI NVHLPKSMVF
310     320     330     340     350
VNTSWNLPMG YULNNVYFKN ALRLGTFSAV LVTYASALL HGFSFHLAAV
360     370     380     390     400
LLSLAFITYV EHVLRKRLAR ILSACVLSKR CPPDCSHQHR LGLGVRALHL
410     420     430     440     450
LFGALAIFFL NYLGLSDFDMD VDDTTEEQGY GMYVTVHKUS ELSNASHMVT
460
FGCWIFYRLE G

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Affinity Tag: Histidine tag fused to the N-terminal end of the protein.

Production conditions: hPORCN is expressed in a cell-free expression system. 100 µg can be produced and qualified in about 1 week.

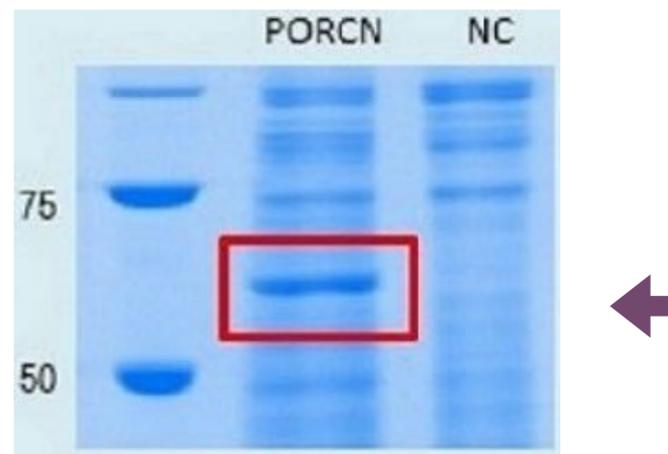


Quality analysis

Purity: Typically >50% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, hPORCN proteoliposomes are purified on a sucrose gradient. Further purification steps can be added if required.

Fig.2: SDS-PAGE after Coomassie blue staining of hPORCN proteoliposome following purification on a sucrose gradient. NC: Negative control.



After purification on a sucrose gradient, the protein (red square) appears at the right size on polyacrylamide gel.

Formulation

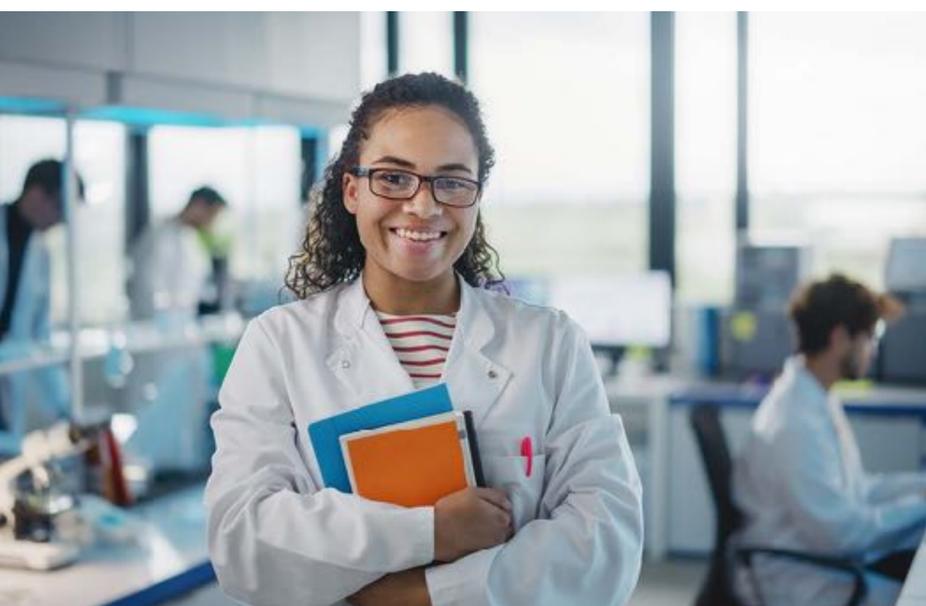
Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Customized Hydrophobic matrix: Customized formulation with specific lipids like PEGylated or biotinylated lipids can be used upon request, as well as targeting molecules.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage. Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10µg, 20µg, 100 µg, 200 µg, 500 µg, bulk



Need a specific amount, a quote or any additional information?
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Synthelisis.

T : +33 (0)4 76 54 95 35

E: contact@synthelisis.fr

www.synthelisis.com

