

WNK2 active protein

Recombinant WNK2 (1-489) protein

CATALOG #
AAA60337

HOST
Baculovirus

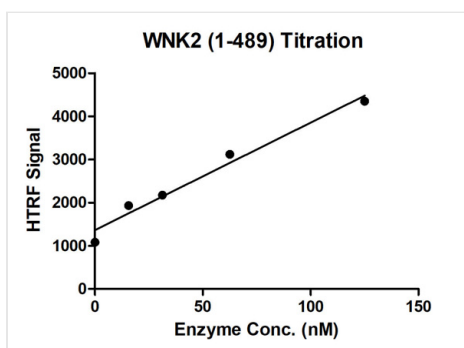
PRODUCT SYNONYMS

WNK2; Recombinant WNK2 (1-489) protein; WKN Lysine Deficient Protein Kinase 2; WNK2 active protein

PRODUCT SPECIFICATIONS

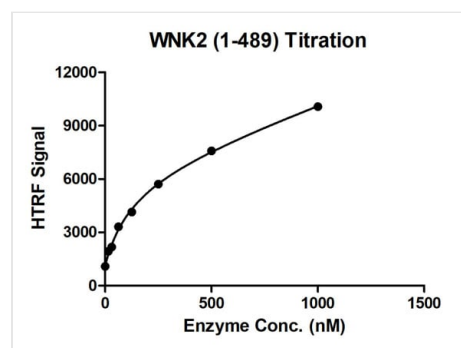
Host	Baculovirus
Purity/Purification	>=85%
Form/Format	Recombinant WNK2 (1-489) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant WNK2 (1-489) protein that includes amino acids 1-489 of human WNK2 protein (accession number NP_006639.3) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 55.3 kDa
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



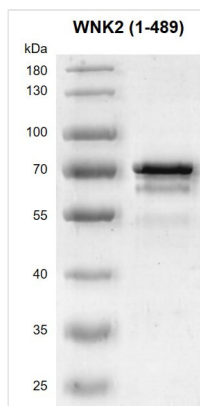
Bioactivity

HTRF assay for WNK2 (1-489); activity 1 μ M STK S3 substrate was incubated with different concentrations of WNK2 (1-489); protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. The detection reagents were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature.



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SDS-PAGE

Recombinant WNK2 (1-489) protein 10% SDS-PAGE Coomassie staining MW: 55.3 kDa
Purity: >= 85%

ADDITIONAL INFORMATION

Related Product Information for WNK2 active protein	WNK2 (WNK Lysine Deficient Protein Kinase 2), a serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival, and proliferation. WNK2 acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. This protein activates SLC12A2, SCNN1A, SCNN1B, SCNN1D and SGK1 and inhibits SLC12A5 and negatively regulates the EGF-induced activation of the ERK/MAPK-pathway and the downstream cell cycle progression. It also affects MAPK3/MAPK1 activity by modulating the activity of MAP2K1 and this modulation depends on phosphorylation of MAP2K1 by PAK1. WNK2 acts by interfering with the activity of PAK1 by controlling the balance of the activity of upstream regulators of PAK1 activity, RHOA and RAC1, which display reciprocal activity.
Product Categories/Family for WNK2 active protein	Kinase; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/wnk2/60337>