

Human NK2R Full Length Protein, Flag,His Tag (Detergent)

Catalog # NKR-H52D3



BIOSYSTEMS
Acro
Surprise Inside!

Application

- Immunization
- Affinity testing (SPR / BLI)
- Screening ([ELISA](#))

Synonym

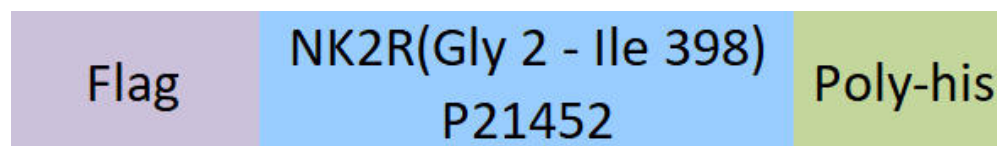
NK2R, NKNAR, SKR, TAC2R

Source

Detergent Human NK2R Full Length Protein, Flag,His Tag (NKR-H52D3) is expressed from human 293 cells (HEK293). It contains AA Gly 2 - Ile 398 (Accession # [P21452](#)).

Predicted N-terminus: Asp

Molecular Characterization

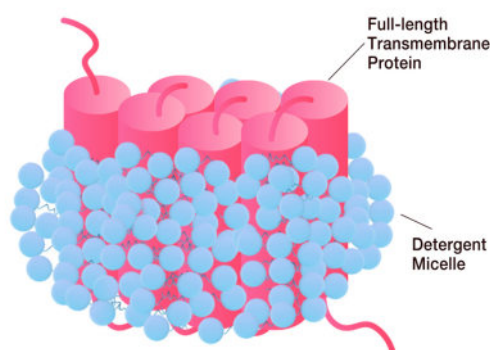


This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 47.9 kDa. The protein migrates as 53-55 kDa and 65-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

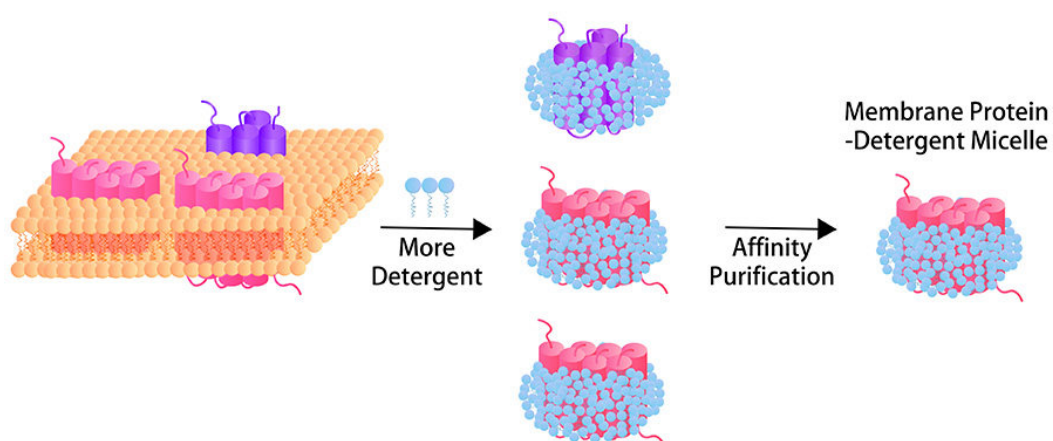
*The detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• Structure



Each full-length transmembrane protein is encapsulated by detergent micelle.

• Synthesis Process



Through **mild detergent micelle extraction**, dedicated solubilization, and stringent affinity purification, we maximally retain the native transmembrane conformation of full-length transmembrane proteins throughout downstream purification. This workflow yields purified, detergent-solubilized proteins free of unrelated membrane impurities and exogenous scaffold proteins, with **exceptional purity, accurate quantitation**, and well-preserved biological activity—ideal for immunization, binding assays in antibody discovery and screening (ELISA) and affinity testing (SPR and BLI), etc.

Purity

>90% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of detergent.

Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstances should you remove detergent.

Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.

If glycerol is not compatible with your application, remove glycerol just before the immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, Buffer B, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

Please avoid repeated freeze-thaw cycles.

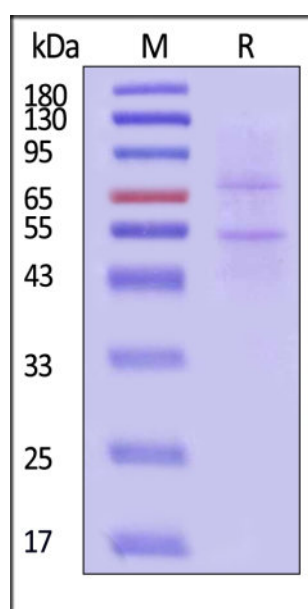
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

ACRO Quality Management System

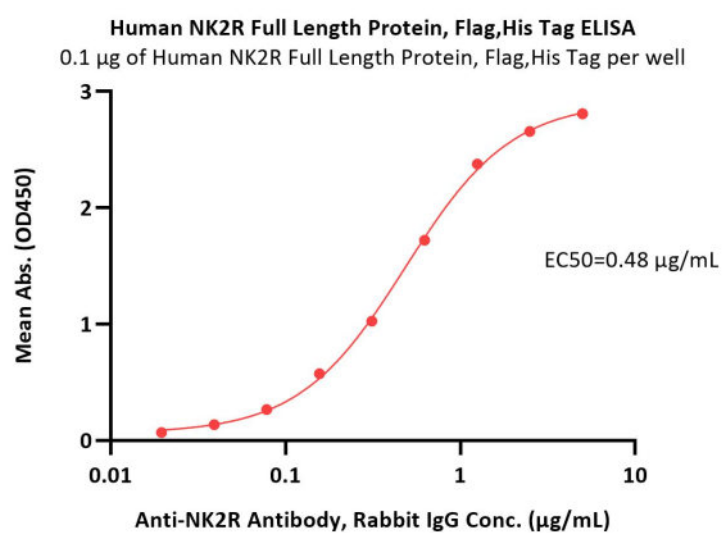
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human NK2R Full Length Protein, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human NK2R Full Length Protein, Flag,His Tag (Cat. No. NKR-H52D3) at 1 µg/mL (100 µL/well) can bind Anti-NK2R Antibody, Rabbit IgG with a linear range of 0.02-1.25 µg/mL (QC tested).

Background

The Neurokinin-2 Receptor (Tachykinin Receptor 2), mediating smooth muscle contraction, inflammation, and nociception via Neurokinin A. It is implicated in asthma, IBS, and bladder overactivity. NK2R antagonists are being explored as potential therapies for visceral hypersensitivity and inflammatory bowel disorders.

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