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## Datasheet for ABIN7538541 TACR1 Protein

### Overview

|               |                    |
|---------------|--------------------|
| Quantity:     | 50 µg              |
| Target:       | TACR1              |
| Origin:       | Human              |
| Source:       | Mammalian Cells    |
| Protein Type: | Synthetic Nanodisc |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Purpose:         | Human NK1R full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                |
| Characteristics: | Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified. |

### Target Details

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| Target:           | TACR1                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Name: | NK1R ( <a href="#">TACR1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                |
| Background:       | This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008] |

## Target Details

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| Molecular Weight: | The human full length NK1R protein has a MW of 46.3kDa                                                                                                        |
| UniProt:          | <a href="#">P25103</a>                                                                                                                                        |
| Pathways:         | <a href="#">Regulation of Systemic Arterial Blood Pressure by Hormones</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Smooth Muscle Cell Migration</a> |

## Application Details

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| Comment: | <p>Advantages of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Highly purified membrane proteins</li><li>• High solubility in aqueous solutions</li><li>• High stability</li><li>• Proteins are in a native membrane environment and remain biologically active</li><li>• No detergent and can be used for cell-based assays</li><li>• No MSP backbone proteins</li></ul> <p>Limitations of Synthetic Nanodiscs:</p> <ul style="list-style-type: none"><li>• Intolerant to acids and high concentrations of divalent metal ions</li></ul> |
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| Restrictions: | For Research Use only |
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## Handling

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| Format:          | Lyophilized                                                                                                                                                                                                                                            |
| Buffer:          | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).<br>Normally 5 % - 8 % trehalose is added as protectants before lyophilization.                                                                                  |
| Storage:         | -20 °C,-80 °C                                                                                                                                                                                                                                          |
| Storage Comment: | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).<br>Lyophilized proteins are shipped at ambient temperature. |
| Expiry Date:     | 12 months                                                                                                                                                                                                                                              |