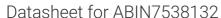
antibodies -online.com





Angiotensin II Type 2 Receptor Protein



Overview

| Quantity: | 50 μg |
|---------------|--|
| Target: | Angiotensin II Type 2 Receptor (AGTR2) |
| Origin: | Human |
| Source: | Mammalian Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

| Purpose: | Human AGTR2 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

| Target: | Angiotensin II Type 2 Receptor (AGTR2) | |
|-------------------|---|--|
| Alternative Name: | AGTR2 (AGTR2 Products) | |
| Background: | The protein encoded by this gene belongs to the G-protein coupled receptor 1 family, and | |
| | functions as a receptor for angiotensin II. It is an intergral membrane protein that is highly | |
| | expressed in fetus and in neonates, but scantily in adult tissues, except brain, adrenal medulla, | |
| | and atretic ovary. This receptor has been shown to mediate programmed cell death and this | |
| | apoptotic function may play an important role in developmental biology and pathophysiology. | |

| Mutations in this gene are been associated with X-linked cognitive disability. Severe Acute | | |
|--|--|--|
| Respiratory Syndrome Coronavirus (SARS-CoV) and SARS-CoV-2 infection results in down- | | |
| regulation of angiotensin converting enzyme-2 (ACE2) receptors, the effects of which, triggers | | |
| serious inflammatory lesions in the tissues involved, primarily in the lungs. The inflammatory | | |
| reaction appears to be mediated by angiotensin II derivatives, including the angiotensin AT2 | | |
| receptor which has been found to be upregulated in bronchoalveolar lavage samples from | | |
| Coronavirus disease 2019 (COVID19) patients. [provided by RefSeq, Jul 2020] | | |
| | | |

Molecular Weight:

The human full length AGTR2 protein has a MW of 41.2kDa

UniProt:

P50052

Pathways:

ACE Inhibitor Pathway, Hormone Transport, Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Comment:

Advantages of Synthetic Nanodiscs:

- · Highly purified membrane proteins
- · High solubility in aqueous solutions
- · High stability
- · Proteins are in a native membrane environment and remain biologically active
- · No detergent and can be used for cell-based assays
- · No MSP backbone proteins

Limitations of Synthetic Nanodiscs:

· Intolerant to acids and high concentrations of divalent metal ions

Restrictions:

For Research Use only

Handling

| Format: | Lyophilized | |
|------------------|--|--|
| Buffer: | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). 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). Lyophilized proteins are shipped at ambient temperature. | |

| \vdash | land | lına |
|----------|-------|------|
| | iaria | шц |

Expiry Date:

12 months