

Datasheet for ABIN7538523

**Serotonin Receptor 4 Protein (HTR4)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Serotonin Receptor 4 (HTR4)
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

## Product Details

Purpose:	Human 5HT4R 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:	Serotonin Receptor 4 (HTR4)
Alternative Name:	5HT4R ( <a href="#">HTR4 Products</a> )
Background:	This gene is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described.

## Target Details

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[provided by RefSeq, May 2010]

Molecular Weight: The human full length 5HT4R protein has a MW of 43.8kDa

UniProt: [Q13639](#)

Pathways: [JAK-STAT Signaling](#), [cAMP Metabolic Process](#), [S100 Proteins](#)

## Application Details

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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

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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.

Expiry Date: 12 months