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Datasheet for ABIN7491681  
**HCRT1 Protein**

### Overview

Quantity:	100 µg
Target:	HCRT1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

### Product Details

Purpose:	Human HCRT1 full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

### Target Details

Target:	HCRT1
Alternative Name:	HCRT1 ( <a href="#">HCRT1 Products</a> )
Background:	ORXR1, OX1R, OXR1 Description: The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRT2) encodes a G-protein coupled receptor that binds orexin A and orexin B. [provided by RefSeq, Jan 2009]
Molecular Weight:	The human full length HCRT1 protein has a MW of 47.5 kDa
UniProt:	<a href="#">O43613</a>
Pathways:	<a href="#">Feeding Behaviour</a>

## Application Details

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Application Notes:	<ul style="list-style-type: none"><li>• Applications for VLPs:</li><li>• ELISA</li><li>• SPR affinity analysis</li><li>• Phage display screening</li><li>• Immunization</li><li>• Cell based assays</li><li>• CAR-T cell screening</li><li>• Protein crystal structure analysis</li></ul>
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Comment:	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.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
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