

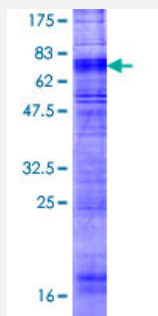
Full-Length

HCRTR1 (Human) Recombinant Protein (P01)

Catalog # H00003061-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HCRTR1 full-length ORF (AAH74796.1, 1 a.a. - 425 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEPSATPGAQMGVPPGSREPSVPDPDYEDFLRYLWRDYLTPKQYEWVLIAAYVAVFVVALVGN
TLVCLAVWRNHMRTVTNYFVNLSLADVLVTAICLPASLLVDITESWLFGHALCKVIPYLQAVSVS
VAVLTLSFIALDRWYAICHPLLFKSTARRARGSLGIWAVSLAIMVPQAAVMECSSLPELANRTRL
FSVCDERWADDLYPKIYHSCFFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTSALVRNWKRPDQ
LGDLEQQLSGEPQPRARAFLAEVKQMRARRKTAKMLMVLLVFALCYLPISVLNVLKRVFGMFR
QASDREAVYACFTFSHWLVYANSAANPIYNFLSGKFREQFKAASFCCPLGLGPCGSLKAPSPRS
SASHKSLSLQSRCSISKISEHVVLTSVTTVLP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HCRTR1

Entrez GeneID [3061](#)**GeneBank Accession#** [BC074796.2](#)**Protein Accession#** [AAH74796.1](#)**Gene Name** HCRTR1**Gene Alias** OX1R**Gene Description** hypocretin (orexin) receptor 1**Omim ID** [602392](#)**Gene Ontology** [Hyperlink](#)

Gene Summary 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 (HCRTR2) encodes a G-protein coupled receptor that binds orexin A and orexin B. [provided by RefSeq]

Other Designations OTTHUMP00000003951|hypocretin receptor 1|hypocretin receptor-1|orexin receptor 1|orexin receptor-1

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Anorexia Nervosa](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bulimia](#)
- [Genetic Predisposition to Disease](#)
- [Hyponatremia](#)
- [Mental Disorders](#)
- [NARP](#)
- [Schizophrenia](#)