

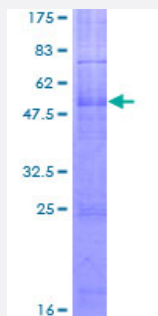
Full-Length

MC2R (Human) Recombinant Protein (P01)

Catalog # H00004158-P01

Size 2 ug

Applications



Specification

Product Description

Human MC2R full-length ORF (NP_000520.1, 1 a.a. - 297 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKHIINSYENINNTARNNSDCPRVVLPEEIFFTISIVGVLENLIVLLAVFKNKNLQAPMYFFICSLAISD
MLGSLYKILENILILRNMGYLKPRGSFETTADDIIDSLFVLSLLGSIFSLSVIAADRYTIFHALRYHSVT
MRRTVVVLTVWTFCTGTGITMVIFSHHVPTVITFTSLFPLMLVFILCLYVHMFLARSHTRKISTLPRA
NMKGATLTILLGVFIFCWAPFVLHVLLMTFCPSNPYCACYMSLFQVNGMLIMCNAVIDPFIYAFRSP
ELRDAFKKMIFCSRYW

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.3

Interspecies Antigen Sequence

Mouse (89); Rat (90)

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 — MC2R

Entrez GeneID[4158](#)**GeneBank Accession#**[NM_000529.2](#)**Protein Accession#**[NP_000520.1](#)**Gene Name**

MC2R

Gene Alias

ACTHR, MGC125798

Gene Description

melanocortin 2 receptor (adrenocorticotrophic hormone)

Omim ID[202200 607397](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

MC2R encodes one member of the five-member G-protein associated melanocortin receptor family. Melanocortins (melanocyte-stimulating hormones and adrenocorticotrophic hormone) are peptides derived from pro-opiomelanocortin (POMC). MC2R is selectively activated by adrenocorticotrophic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands. Mutations in MC2R can result in familial glucocorticoid deficiency. [provided by RefSeq]

Other Designations

ACTH receptor|MC2 receptor|OTTHUMP00000162512|adrenocorticotrophic hormone receptor|corticotropin receptor|melanocortin 2 receptor

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Addison Disease](#)
- [Breast Neoplasms](#)
- [Chronic Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Epilepsy](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Heroin Dependence](#)
- [Mental Disorders](#)
- [Musculoskeletal Diseases](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Pain](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychophysiologic Disorders](#)
- [Psychotic Disorders](#)
- [Puberty](#)

- [Schizophrenia](#)
- [Somatoform Disorders](#)
- [Spasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)