

Product datasheet for PH310483

MC2 receptor (MC2R) (NM_000529) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MC2R MS Standard C13 and N15-labeled recombinant protein (NP_000520)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210483
Predicted MW:	33.9 kDa
Protein Sequence:	>RC210483 protein sequence Red=Cloning site Green=Tags(s) MKHIINSYENINNTARNNSDCPRVVLPEEIFFTISIVGVLENLIVLLAVFKNKNLQAPMYFFICSLAISD MLGSLYKILENIIILRNMGYLKPRGSFETTADDIIDSFLVLSLLGSIFLSVIAADRYITIFHALRYHS IVTMRRTVVVLTVIWTFCTGTGITMVIFSHHVPTVITFTSLFPLMLVFILCLYVHMFLARSHTRKISTL PRANMKGAITLTILLGVFIFCWAPFVLHVLLMTFCPSNPYACAYMSLFQVNGMLIMCNAVIDPFIYAFRS PELRDAFKKMIFCSRYW TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000520</u>
RefSeq Size:	3652
RefSeq ORF:	891
Synonyms:	ACTHR
Locus ID:	4158



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UniProt ID: [Q01718](#)

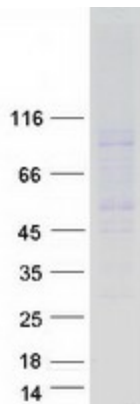
Cytogenetics: 18p11.21

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. Alternate transcript variants have been found for this gene. [provided by RefSeq, May 2014]

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Product images:



Coomassie blue staining of purified MC2R protein (Cat# [TP310483]). The protein was produced from HEK293T cells transfected with MC2R cDNA clone (Cat# [RC210483]) using MegaTran 2.0 (Cat# [TT210002]).