

## Product datasheet for PH305288

### MCSF Receptor (CSF1R) (NM\_005211) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CSF1R MS Standard C13 and N15-labeled recombinant protein (NP_005202)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205288
Predicted MW:	107.8 kDa
Protein Sequence:	>RC205288 representing NM_005211 Red=Cloning site Green=Tags(s)

MGPVLLLLLVATAWHGQGIPVIEPSVPELVVKGATVTLRCVGNQSVVEWDGPPSPHWTLYSDGSSSILS  
TNNATFQNTGTyrCTEPGDPLGGSAAIHLVYKDPARPWNVLAQEVVVFEDQDALLPCLLTDVPVLEAGVSL  
VRVGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGRKVMSSISIRLKVQKVIPGPPALTLVPA  
ELVRIRGEAAQIVCSASSVDVNFDFLQHNNTKLAIHQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVA  
SNVQGHSTSMFFRVVESAYLNLSSQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLGPFSDHQPEPK  
LANVTTKDTYRHTFTLSLPRPKPSEAGRYSFLARNPPGGWRALTFELTLRYPPEVSVIWTFIGSGTLLCA  
ASGYQPQNVTLQCSGHTDRCDEAQLQVWDDPYPEVLSQEPFHKVTVQSLLTVEHNTQTYECRAHNS  
VSGSWAFIPISAGAHTPPDEFLLFTPVVVACMSIMALLLLLLLLLLLYKQKPKYQVRWKIIESYEGNS  
YTFIDPTQLPYNEKWEFPRNLLQFGKTLGAGAFGKVEATAFGLGKEDAVLKVAVKMLKSTAHADEKESL  
MSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRKAEAMLGPSLSPGQDPEGVDYK  
NIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSNDSFSEQDLKEDGRPLELRDLLHFSSQVAQGMFLA  
SKNCIHRDVAARNVLLTNGHVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEIFDCVYTVQSDVWS  
YGILLWEIFSLGLNPYPGILVNSKFYKLVKDGYPMAQPAFAPKNIYSIMQACWALEPTHRPTFQQICSF  
LEQAQEDRRERDYTNLPSSSRSGSGSSSSELEEESSSEHLTCCEQGDIAQPLLQPNNYQFC

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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.



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RefSeq: [NP\\_005202](#)

RefSeq Size: 3985

RefSeq ORF: 2916

Synonyms: BANDDOS; C-FMS; CD115; CSF-1R; CSFR; FIM2; FMS; HDLS; M-CSF-R

Locus ID: 1436

UniProt ID: [P07333](#)

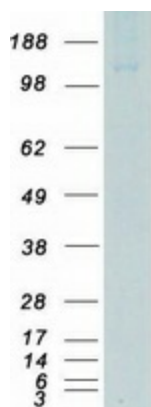
Cytogenetics: 5q32

**Summary:** The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines and anaplastic large cell lymphoma. [provided by RefSeq, Mar 2017]

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Endocytosis, Hematopoietic cell lineage, Pathways in cancer

### Product images:



Coomassie blue staining of purified CSF1R protein (Cat# [TP305288]). The protein was produced from HEK293T cells transfected with CSF1R cDNA clone (Cat# [RC205288]) using MegaTran 2.0 (Cat# [TT210002]).