

Certificate of Analysis

CSF1R, 100 µg

Colony Stimulating Factor 1 Receptor, Histidine-tagged

ThermoFisher
SCIENTIFIC

Part Number: PR4598A

Lot Number: 2475673L

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

www.thermoFisher.com

Description:

Recombinant human, catalytic domain (amino acids 538-910), Histidine-tagged, expressed in insect cells. Activated in-vitro via autophosphorylation.

Specific Activity:

410 nmoles of phosphate transferred to poly [Glu, Tyr] 4:1 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 2 µg/mL.

Concentration:

0.45 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **10,000 nM**.

Aliases:

FMS, CSFR, C-FMS, CD115

Storage and Handling:

For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 µg, 10µg and 20µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

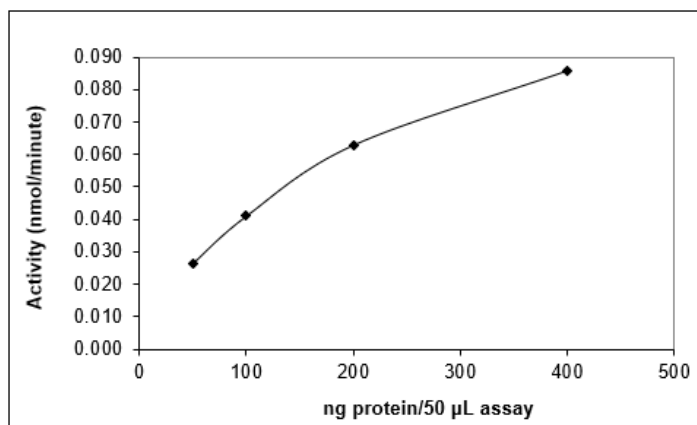
This product is not stable at room temperature (50% activity loss is observed within 6 hours at room temperature).

Storage Buffer:

50 mM Tris (pH 7.5), 100 mM NaCl, 0.05 mM EDTA, 0.05% Triton® X-100, 2 mM DTT and 50% Glycerol.

QUALITY ASSURANCE

CSF1R Activity Graph



Dilution Buffer:

20 mM Tris (pH 7.5), 0.05% NP-40, 0.1 mg/mL BSA, 1 mM DTT and 10% Glycerol.

Assay Conditions:

CSF1R was pre-diluted in enzyme dilution buffer and assayed in 50 mM HEPES (pH 7.5), 10 mM MgCl₂, 10% Glycerol, 2.5 mM DTT, 0.01% Triton® X-100, 200 µM ATP, 200 µg/mL poly [Glu, Tyr] 4:1 substrate and trace [³²P]-γ-ATP for 10 minutes at 30°C.

Gel Information for CSF1R

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex™ gels (Catalog #: EC6025BOX).

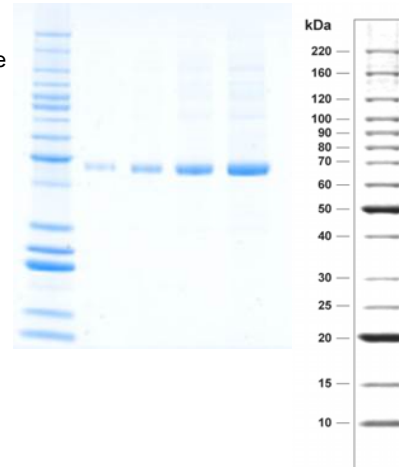
Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.3 µg CSF1R

Lane 3: 0.6 µg CSF1R

Lane 4: 1.5 µg CSF1R

Lane 5: 3.0 µg CSF1R



Purity:

80% as determined by a SDS-PAGE gel stained with SimplyBlue™ SafeStain.

Molecular Weight:

44.8 kDa. Calculated from the protein sequence(s).

Mass Spectrometry:

CSF1R was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified CSF1R identity by comparison against the amino acid sequence(s) of the recombinant protein.

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_005202

1 MYKYKQPKY QVRWKIESY EGNSYTFIDP TQLPYNEKWE FPRNNLQFGK TLGAGAFGKV VEATAFGLGK EDAVLKVAVK MLKSTAHAD KEALMSELKI IVGN CSF1R
537 LYKYKQPKY QVRWKIESY EGNSYTFIDP TQLPYNEKWE FPRNNLQFGK TLGAGAFGKV VEATAFGLGK EDAVLKVAVK MLKSTAHAD KEALMSELKI NP_005202

101 MSHLGQHNI VNLLGACTHG GPVLVITEYC CYGDLLNFLR RKA EAMLGPS LSPGQDPEGG VDYKNIHLEK KYVRRDSGFS SQGVDITYVEM RPVSTSSNDS
637 MSHLGQHNI VNLLGACTHG GPVLVITEYC CYGDLLNFLR RKA EAMLGPS LSPGQDPEGG VDYKNIHLEK KYVRRDSGFS SQGVDITYVEM RPVSTSSNDS

201 FSEQDLKED GRPLELRDLL HFSSQVAQGM AFLASKNCIH RDVAARNVLL TNGHVAKIGD FGLARDIMND SNYIVKG NAR LPVKWMAPE S IFDCVYTVQS
737 FSEQDLKED GRPLELRDLL HFSSQVAQGM AFLASKNCIH RDVAARNVLL TNGHVAKIGD FGLARDIMND SNYIVKG NAR LPVKWMAPE S IFDCVYTVQS

301 DVWSYGILLW EIFSLGLNPY PGILVNSKFY KLVKDG YQMA QPAFAPKN IY SIMQACWALE PTHRPTFQOI CSFLKGVEAC QLGTDDYDIP TTHHHHHH.
837 DVWSYGILLW EIFSLGLNPY PGILVNSKFY KLVKDG YQMA QPAFAPKN IY SIMQACWALE PTHRPTFQOI CSFL

* highlighted residues denote differences from the reference protein sequence(s).



Cheohn Joseph, Director, Quality

Date: 29/Jun/2022

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