Certificate of Analysis CSF1R, 100 µg

Colony Stimulating Factor 1 Receptor, Histidine-tagged

Part Number: PR4598A Lot Number: 2475673P 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), Histidinetagged, 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 μ g/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 ug, 10ug and 20ug 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 μ L 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.

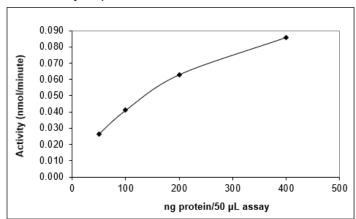
This product is not stable at room temperature (50% activity loss is observed within 6 hours at room temperature).

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



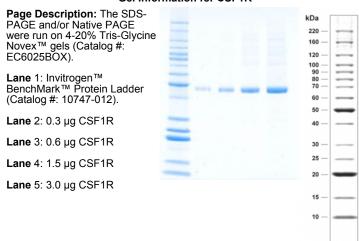
Dilution Buffer:

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 MgCl $_2$, 10% Glycerol, 2.5 mM DTT, 0.01% Triton® X-100, 200 μ M ATP, 200 μ g/mL poly [Glu, Tyr] 4:1 substrate and trace [32 P]- γ -ATP for 10 minutes at 30°C.

Gel Information for 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.

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Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_005202

- 1 MYKYKOKPKY QVRWKIIESY EGNSYTFIDP TQLPYNEKWE FPRNNLQFGK TLGAGAFGKV VEATAFGLGK EDAVLKVAVK MLKSTAHADE KEALMSELKI IVGN CSF1R 537 LYKYKOKPKY QVRWKIIESY EGNSYTFIDP TQLPYNEKWE FPRNNLQFGK TLGAGAFGKV VEATAFGLGK EDAVLKVAVK MLKSTAHADE KEALMSELKI NP_005202
- 101 MSHLGQHENI VNLLGACTHG GPVLVITEYC CYGDLLNFLR RKAEAMLGPS LSPGQDPEGG VDYKNIHLEK KYVRRDSGFS SQGVDTYVEM RPVSTSSNDS 637 MSHLGQHENI VNLLGACTHG GPVLVITEYC CYGDLLNFLR RKAEAMLGPS LSPGQDPEGG VDYKNIHLEK KYVRRDSGFS SQGVDTYVEM RPVSTSSNDS
- 201 FSEQDLDKED GRPLELRDLL HFSSQVAQGM AFLASKNCIH RDVAARNVLL TNGHVAKIGD FGLARDIMND SNYIVKGNAR LPVKWMAPES IFDCVYTVQS 737 FSEQDLDKED GRPLELRDLL HFSSQVAQGM AFLASKNCIH RDVAARNVLL TNGHVAKIGD FGLARDIMND SNYIVKGNAR LPVKWMAPES IFDCVYTVQS
- 301 DVWSYGILLW EIFSLGLNPY PGILVNSKFY KLVKDGYQMA QPAFAPKNIY SIMQACWALE PTHRPTFQQI CSFLKGVEAC QLGTDDYDIP TTHHHHHH. 837 DVWSYGILLW EIFSLGLNPY PGILVNSKFY KLVKDGYQMA QPAFAPKNIY SIMQACWALE PTHRPTFQQI CSFL

Chevohn Joseph, Director, Quality

Date: 29/Jun/2022

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For Research Use Only. Not for use in diagnostic procedures.

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