

STEMmFNS™ Whole NS Cell Lysates

Purified Mouse Fetal Brain-derived NS Cell gDNA, RNA & Protein



SC Proven® Products undergo rigorous quality control procedures before release. The SC Proven stamp is your assurance that every product bearing our trademark meets impeccable quality standards.

Product Information

STEMmFNS-D™

Description: Purified Mouse Fetal Brain-derived NS Cell gDNA
Catalog Number: CL-MFN01-005
Size: 5µg

STEMmFNS-R™

Description: Purified Mouse Fetal Brain-derived NS Cell RNA
Catalog Number: CL-MFN02-010
Size: 10µg

STEMmFNS-P™

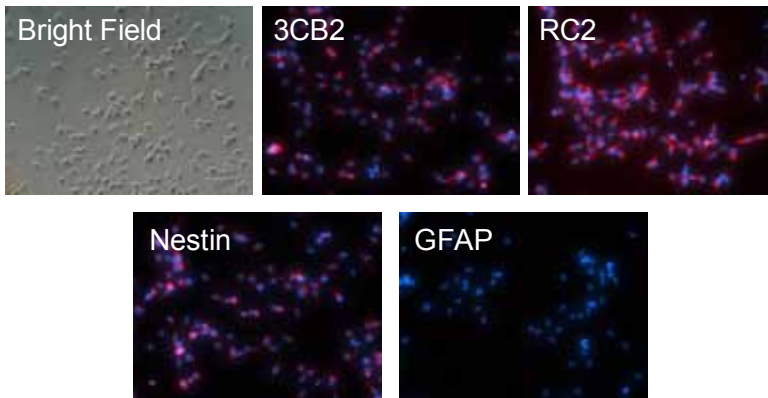
Description: Purified Mouse Fetal Brain-derived NS Cell Protein
Catalog Number: CL-MFN03-020
Size: 20µg

STEMmFNS-Triplet™

Description: Kit containing 1 each of STEMmFNS-D, -R, -P
Catalog Number: CL-MFN04

Description and Applications

STEMmFNS comprises a family of genomic DNA (gDNA), RNA and protein reagents from a single cell culture lysate of a mouse (strain MF1) fetal hind brain-derived neural stem (Hind NS) cell line. Cultured in SC Proven proprietary RHB-A® media supplemented with EGF and bFGF, this NS cell line is maintained as a homogenous (>99%) layer of adherent cells without loss of neurogenic capacity¹⁻³.



Microscope bright field and immunocytochemistry images of mouse NS cells propagated in RHB-A plus EGF and bFGF



The purified gDNA averages between 15-30 kilobases in size, and is suitable for applications such as:

- PCR and qualitative real time RT-PCR
- Southern blot analyses
- Comparative Genome Hybridization (CGH)
- Epigenetic, Genotyping and SNP analyses

To Order...

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Description and Applications, cont.

Purified RNA molecules of greater than 200bp are suitable for applications such as:

- RT-PCR and qualitative RT-PCR
- Poly A⁺ selection and cDNA synthesis
- Northern blot analyses
- Micro-arrays

The purified cellular protein is suitable for:

- 1D and 2D SDS-PAGE and Western blotting under either native or denaturing conditions

Preparation and Storage

These reagents are derived from the lysate of a homogenous stem cell population by sequential affinity chromatography. The reagents are supplied in the following buffers:

- gDNA in 10 mM Tris.Cl, 1mM EDTA (pH 8.5). Store at -20°C.
- RNA in DNase and RNase free H₂O with an RNase inhibitor added. Store at -20°C.
- Protein in Laemmli-based buffer, **without** denaturant and **not** heated; samples can either be run under native SDS-PAGE, or denaturing SDS-PAGE conditions by adding DTT or β-mercaptoethanol and heating. Store at -20°C.

Note: Multiple freeze-thawing of all purified lysates should be avoided.

For research use only. Not for use in humans or in diagnostic or therapeutic procedures. Not for resale.

References

- 1 Conti L, *et al.* Niche-Independent symmetrical self-renewal of a mammalian tissue stem cell. *PLoS Biology* (2005) 3(9):e283
- 2 Pollard SM, *et al.* Adherent Neural Stem (NS) cells from fetal and adult forebrain. *Cerebral Cortex* (2006) 16:112-120
- 3 Pollard SM, *et al.* Fibroblast growth factor induces a neural stem cell phenotype in foetal forebrain progenitors and during embryonic stem cell differentiation. *Molecular and Cellular Neuroscience* (2008) 38:393:403

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