

NeuroCult™ SM1 Neuronal Supplement

Supplement for the serum-free culture of primary tissue-derived neurons and hPSC-derived neural progenitor cells

Catalog #05711

10 mL



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Product Description

NeuroCult™ SM1 (STEMCELL Modified-1) Neuronal Supplement is a standardized serum-free supplement for the culture of primary tissue-derived neurons and human pluripotent stem cell (hPSC)-derived neural progenitor cells.

The NeuroCult™ SM1 formulation was developed based on the published formulation of Brewer's B27¹ supplement. It has been optimized to reproducibly support increased survival and maturation of functional neurons in both short- and long-term cultures with minimal glial cell contamination (< 1% GFAP+). NeuroCult™ SM1 may be used in combination with BrainPhys™ Neuronal Medium (Catalog #05790) or as a serum-replacement supplement for various customizable applications.

NeuroCult™ SM1 is also a component of BrainPhys™ Neuronal Medium and SM1 Kit (Catalog #05792), BrainPhys™ Neuronal Medium N2-A & SM1 Kit (Catalog #05793), and BrainPhys™ Primary Neuron Kit (Catalog #05794). For further details and protocols, refer to the Product Information Sheet (PIS) for BrainPhys™ (Document #DX20519), available at www.stemcell.com or contact us to request a copy.

NOTE: NeuroCult™ SM1 is supplied as a 50X concentrate.

Ordering Information

PRODUCT NAME	CATALOG #	SIZE	KIT COMPONENTS
NeuroCult™ SM1 Neuronal Supplement	05711	10 mL	Not applicable.
BrainPhys™ Neuronal Medium and SM1 Kit	05792	1 Kit	<ul style="list-style-type: none">BrainPhys™ Neuronal MediumNeuroCult™ SM1 Neuronal Supplement
BrainPhys™ Neuronal Medium N2-A & SM1 Kit	05793	1 Kit	<ul style="list-style-type: none">BrainPhys™ Neuronal MediumNeuroCult™ SM1 Neuronal SupplementN2 Supplement-A
BrainPhys™ Primary Neuron Kit	05794	1 Kit	<ul style="list-style-type: none">BrainPhys™ Neuronal MediumNeuroCult™ SM1 Neuronal SupplementNeuroCult™ Neuronal Plating Medium

Storage and Stability

PRODUCT NAME	CATALOG #	SIZE	STORAGE	SHELF LIFE
NeuroCult™ SM1 Neuronal Supplement*	05711	10 mL	Store at -20°C.	Stable until expiry date (EXP) on label.

*Please refer to the Safety Data Sheet (SDS) for hazard information. Lot-to-lot color variations include light to dark yellow or orange. This will not affect performance.

Directions for Use

NOTE: NeuroCult™ SM1 is provided as a 50X stock solution that may be added to the medium of your choice; it may be used as an alternative to Brewer's B27¹ supplement.

Thaw one bottle of NeuroCult™ SM1 at room temperature (15 - 25°C) for 1 hour.

NOTE: If not used immediately, aliquot and store at -20°C. Do not exceed the expiry date (EXP) as indicated on the label. After thawing aliquots, use immediately. Do not re-freeze.

- For culturing primary tissue-derived neurons and for neuronal differentiation of hPSC-derived neural progenitor cells using NeuroCult™ SM1, refer to the PIS for BrainPhys™ Neuronal Medium (Document #DX20519), available at www.stemcell.com or contact us to request a copy.
- For detailed procedures on immunolabeling, refer to the Technical Manual: In Vitro Proliferation and Differentiation of Mouse and Rat Neural Stem and Progenitor Cells Using NeuroCult™ (Document #28704), available at www.stemcell.com or contact us to request a copy.

Related Products

For related products, including specialized cell culture and storage media, supplements, antibodies, and small molecules, visit www.stemcell.com or contact us at techsupport@stemcell.com.

References

1. Brewer GJ et al. (1993) Optimized survival of hippocampal neurons in B27-supplemented Neurobasal, a new serum-free medium combination. *J Neurosci Res* 35(5): 567–76.

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