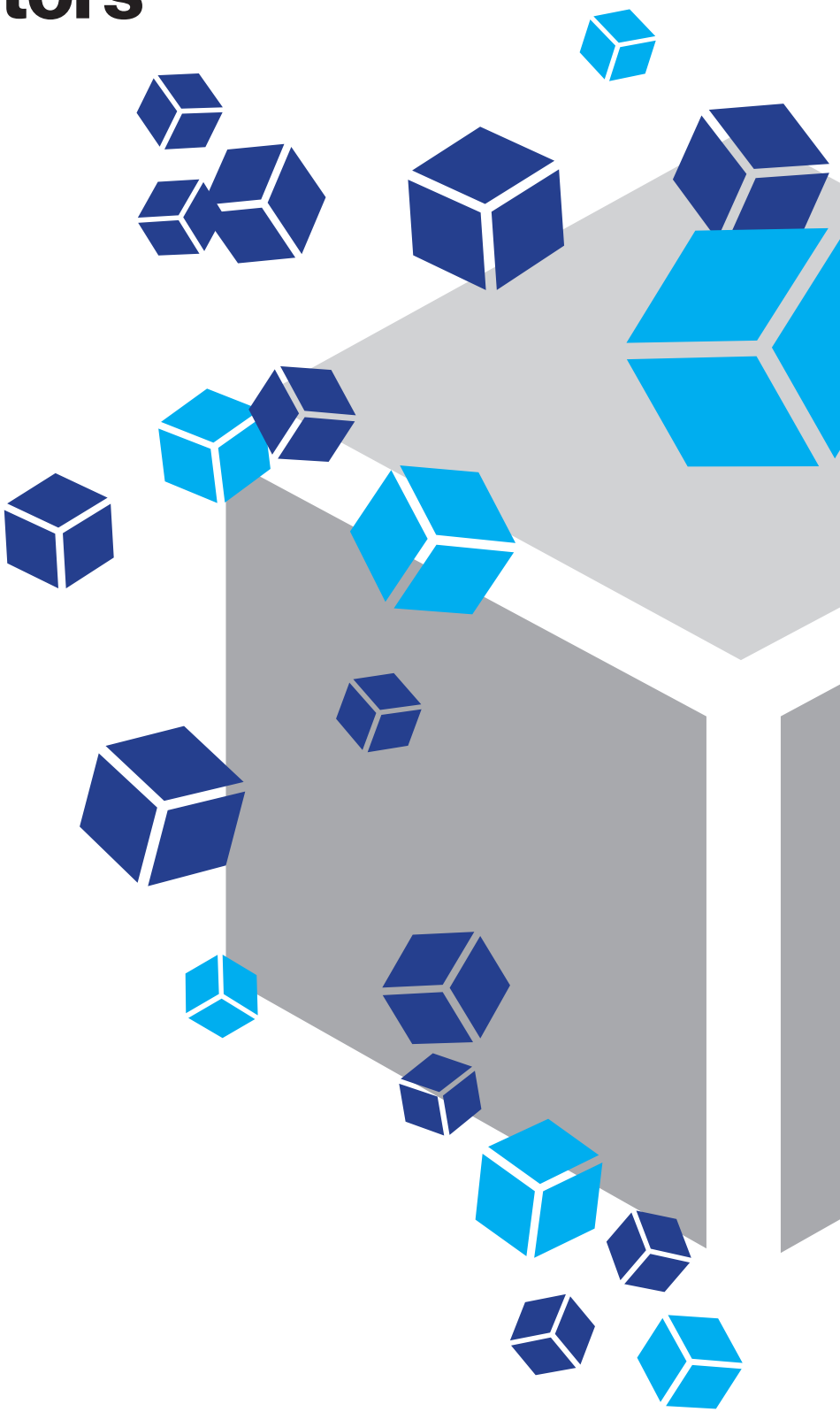
CELL guidance systems

Sustained Release Growth Factors



Powered by PODS® technology

Technology

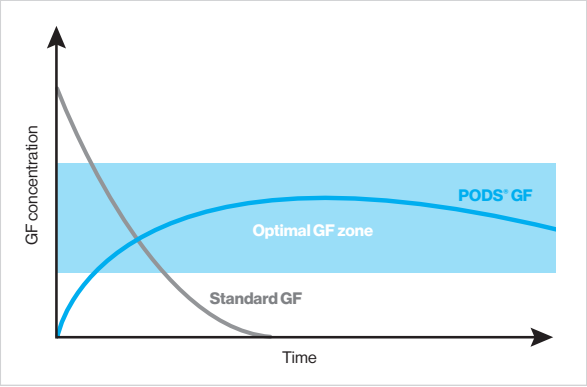
PODS® technology from Cell Guidance Systems encapsulates growth factors in a protein shell, protecting and preserving their function.

Using PODS® growth factors ensures you gain:

- **Precision:** accurately dosing your experiment with just as much reagent as needed
- **Reliability:** growth factors released from PODS® act as freshly expressed protein would
- **Simplicity:** store at 4ºC and use at 37ºC, no need to freeze or subaliquot

Growth Factor Release Profile

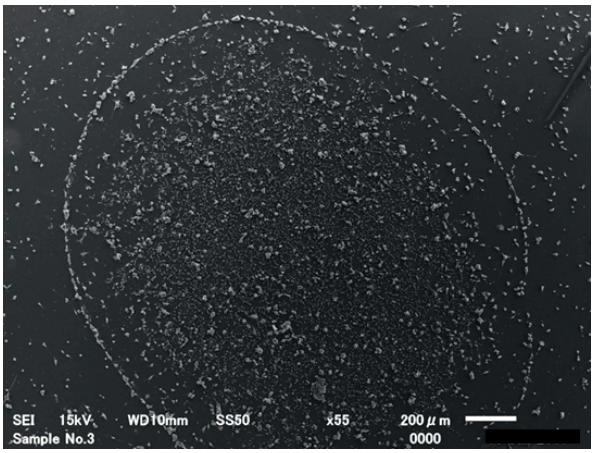
Fully functional growth factors are released from PODS® crystals and are present in culture for a longer period of time (from 2 to 12 weeks). The release rate can be modified when combining PODS® crystals with a scaffold of interest.

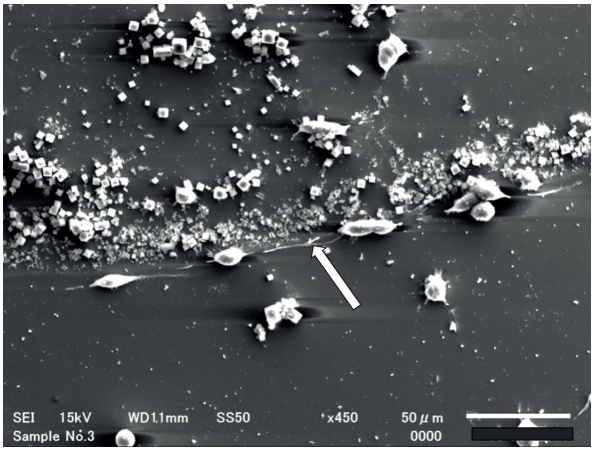


PODS® Growth Factors can be used to create gradients

Sustained Release Growth Factors are spotted onto a culture dish creating a 2 mm diameter circle. Neuronal precursor cells are plated and incubated for 96 hours. The neuronal cells migrate up the gradient towards the edge of the circle forming a ring.

PODS® proteins are available for many popular human and mouse growth factors and can be produced as a custom order for other proteins.





PODS® are a high-quality reagent, yet represent great value to the life science researcher.

List of PODS® Growth Factors

For an up to date list visit www.cellgs.com

■ Human ■ Mouse ■ Rat

Cat Code	Product Name	Status
PPH302	PODS® Empty	Validated
PPH6	■ PODS® Activin A	Validated
PPM29	■ PODS® Activin A	Validated
PPR6	■ PODS® Activin A	Validated
PPH307	■ PODS® Activin B	Unvalidated
PPH1	■ PODS® BDNF	Validated
PPH56	■ PODS® BMP–4	Unvalidated
PPH308	■ PODS® BMP-10	Unvalidated
PPH25	■ PODS® CD40 Ligand	Unvalidated
PPH59	■ PODS® CNTF	Unvalidated
PPH309	■ PODS® DKK-1	Unvalidated
PPH26	■ PODS® EGF	Unvalidated
PPH310	■ PODS® Ephrin-A1	Unvalidated
PPH311	■ PODS® Ephrin-A3	Unvalidated
PPH312	■ PODS® Ephrin-A4	Unvalidated
PPH313	■ PODS® Ephrin-B2	Unvalidated
PPM301	■ PODS® Ephrin-B2	Unvalidated
PPH325	■ PODS® EPO	Unvalidated
PPH29	■ PODS® FGF-1	Unvalidated
PPH146	■ PODS® FGF-2 (154)	Unvalidated
PPH187	■ PODS® FGF-7	Unvalidated
PPH183	■ PODS® FGF-10	Unvalidated
PPH326	■ PODS® FGF-19	Unvalidated
PPH148	■ PODS® FGF-21	Unvalidated
PPH41	■ PODS® Follistatin	Unvalidated
PPH314	■ PODS® Gastrin	Unvalidated
PPH72	■ PODS® G-CSF	Unvalidated
PPH2	■ PODS® GDNF	Validated
PPH8	■ PODS® GM-CSF	Validated
PPH77	■ PODS® IFN-γ	Unvalidated
PPH34	■ PODS® IGF-1	Unvalidated
PPH12	■ PODS® IL-2	Unvalidated
PPH10	■ PODS® IL-6	Unvalidated
PPH83	■ PODS® IL-10	Unvalidated
PPH200	■ PODS® LIF	Validated
PPH315	■ PODS® MANF	Unvalidated
PPH316	■ PODS® NGF (Full)	Unvalidated
PPH317	■ PODS® NGF (Mature)	Unvalidated

Cat Code	Product Name	Status
PPH318	■ PODS® Nodal	Unvalidated
PPH304	■ PODS® Noggin	Unvalidated
PPH99	■ PODS® NT-3	Unvalidated
PPH33	■ PODS® NT-4	Unvalidated
PPH319	■ PODS® OPN	Unvalidated
PPH18	■ PODS® PDGF-BB	Unvalidated
PPH19	■ PODS® RANK Ligand	Unvalidated
PPH320	■ PODS® RSPO1	Unvalidated
PPH321	■ PODS® RSPO3	Unvalidated
PPH4	■ PODS® SCF	Unvalidated
PPH322	■ PODS® Semaphorin 3C	Unvalidated
PPH168	■ PODS® SHH	Unvalidated
PPH323	■ PODS® TGF-α	Unvalidated
PPH39	■ PODS® TGF-β1	Validated
PPH324	■ PODS® TGF-β2	Unvalidated
PPH109	■ PODS® TGF-β3	Unvalidated
PPH111	■ PODS® TNF-α	Unvalidated
PPM34	■ PODS® VEGF-164	Unvalidated
PPH44	■ PODS® VEGF-165	Unvalidated
PPH330	■ PODS® Wnt-1	Available Upon Request
PPH331	■ PODS® Wnt-2	Available Upon Request
PPH332	■ PODS® Wnt-2b	Available Upon Request
PPH333	■ PODS® Wnt-3	Available Upon Request
PPH300	■ PODS® Wnt-3a	Available now – Validated
PPH334	■ PODS® Wnt-4	Available Upon Request
PPH335	■ PODS® Wnt-5a	Available Upon Request
PPH336	■ PODS® Wnt-5b	Available Upon Request
PPH337	■ PODS® Wnt-7a	Available Upon Request
PPH338	■ PODS® Wnt-7b	Available Upon Request
PPH339	■ PODS® Wnt-8a	Available Upon Request
PPH340	■ PODS® Wnt-8b	Available Upon Request
PPH341	■ PODS® Wnt-9a	Available Upon Request
PPH342	■ PODS® Wnt-9b	Available Upon Request
PPH343	■ PODS® Wnt-10a	Available Upon Request
PPH344	■ PODS® Wnt-10b	Available Upon Request
PPH345	■ PODS® Wnt-11	Available Upon Request
PPH346	■ PODS® Wnt-16b	Available Upon Request

All PODS® Growth Factors are available in the following pack sizes: 50 million, 250 million, and 1 billion.

Cell Guidance Systems' reagents and services enable control, manipulation and monitoring of the cell, both *in vitro* and *in vivo*

Growth Factors
- Recombinant
- Sustained Release

Exosomes
- Purification
- Detection
- Tracking
- NTA Service

Small Molecules

Cell Counting Reagent

Matrix Proteins

Cell Culture Media
- Pluripotent Stem Cells
- Photostable
- *In Vitro* Blastocyst Culture
- ETS-embryo Culture
- Custom Manufacturing Service

Gene Knock-Up System

Cytogenetics Analysis

CELL guidance systems

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