

## Maintenance

Day  
0-3

## PSC to hemangioblast

Day  
3-10

## Hematopoiesis

PSC	Stage 1, Day 0	Stage 2, 18 hours	Stage 3, Day 2	Stage 4, Day 3	Stage 5, Day 4	Stage 6, Days 5-6	Stage 7, Days 7-9
Essential 8 medium	Essential 8 medium	Essential 6 medium	Essential 6 medium	Essential 6 medium	Essential 6 medium	Essential 6 medium	Essential 6 medium
	Human/mouse/rat activin A recombinant protein	Human/mouse/rat activin A recombinant protein	Human/mouse/rat activin A recombinant protein	Human VEGF-165 recombinant protein	Human VEGF-165 recombinant protein	Human VEGF-165 recombinant protein	Human SCF recombinant protein
StemPro Accutase cell dissociation reagent	Human BMP-4 recombinant protein	Human BMP-4 recombinant protein	Human BMP-4 recombinant protein	Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein	Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein	Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein	Human IL-6 recombinant protein
	Chir99021	IWP2	IWP2	Rock inhibitor		Human SCF recombinant protein	Human TPO (thrombopoietin) recombinant protein
	Rock inhibitor		Human FGF-basic (FGF-2/bFGF) (154 aa) recombinant protein	StemPro Accutase cell dissociation reagent		Human IL-6 recombinant protein	Human IL-3 recombinant protein

Day  
10-21

## Maturation

**Day 10:** Microglial progenitors ready for further maturation through three options (8a, 8b or 8c)

Stage 8a, Days 10-15 Through co-culture with neurons	Stage 8b, Days 10-21 Without co-culture in serum-containing media	Stage 8c, Days 10-21 Without co-culture in serum-free media
Neurobasal medium	RPMI 1640 medium	IMDM
B-27 supplement	Fetal bovine serum	Ham's F-12 nutrient mix
L-glutamine	L-glutamine	B-27 supplement
Human/mouse/rat BDNF recombinant protein	Penicillin-streptomycin	L-glutamine
Ascorbic acid	Human IL-34 recombinant protein	Human IL-34 recombinant protein
Human GDNF recombinant protein	Human M-CSF recombinant protein	Human M-CSF recombinant protein
cAMP		
Human IL-34 recombinant protein		
Human M-CSF recombinant protein		

### Key

Blue—Thermo Fisher Scientific solution available.

Gray—Solution available from other suppliers.