

Variable	Description	Initial Concentration (nM) (from [11, 12])
H	GnRH	0
R	Free GnRH-R	0.01
HR	Hormone-receptor complex	0
HRRH	Hormone-receptor dimer complex	0
GQ	G <sub>q/11</sub> protein	0.1
E	Effector protein	0
IP3	Inositol 1,4,5-trisphosphate	0
CAC	Cytosolic Ca <sup>2+</sup>	0
CAER	Endoplasmic reticular (ER) Ca <sup>2+</sup>	20 μM
CHO	Fraction of open ER Ca <sup>2+</sup> channels	0
pBMK	Activated pERK5	0
BMKSP	ERK5-specific phosphatase	0