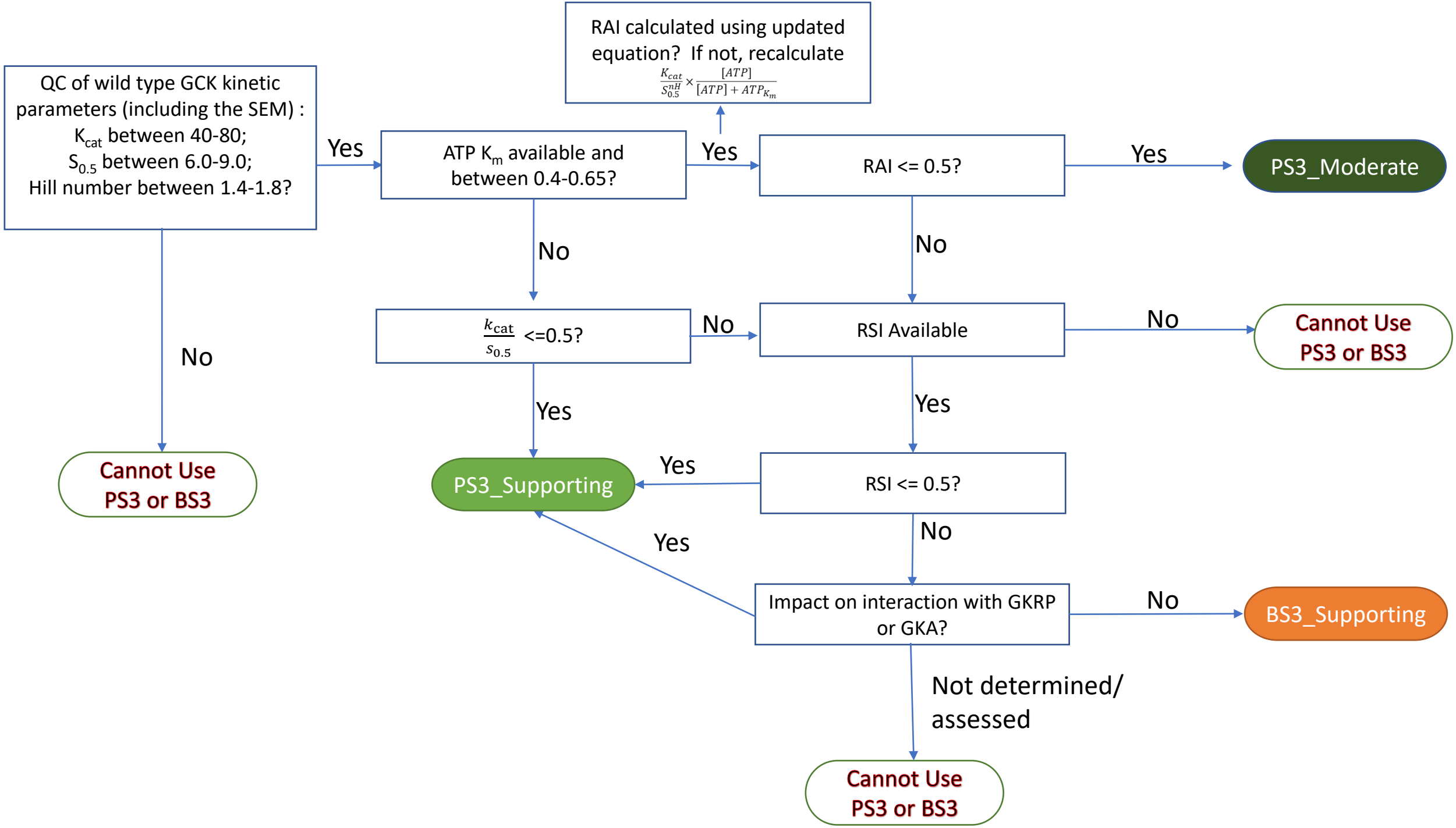
QC of wild type GCK kinetic parameters (including the SEM) :
K_{cat} between 40-80;
$S_{0.5}$ between 6.0-9.0;
Hill number between 1.4-1.8?
Yes
No
Cannot Use PS3 or BS3
ATP K_m available and between 0.4-0.65?
Yes
No
RAI calculated using updated equation? If not, recalculate
$\frac{K_{cat}}{S_{0.5}^{nH}} \times \frac{[ATP]}{[ATP] + ATP_{K_m}}$
RAI <= 0.5?
Yes
PS3_Moderate
No
$\frac{k_{cat}}{s_{0.5}}$ <=0.5?
No
Yes
RSI Available
No
Cannot Use PS3 or BS3
Yes
PS3_Supporting
Yes
RSI <= 0.5?
Yes
No
Impact on interaction with GKRP or GKA?
No
BS3_Supporting
Not determined/ assessed
Cannot Use PS3 or BS3