#

## Competitive

$$

v=\frac{V\_{max}[S]}{[S]}+K\_m(\left(1+\frac{[I]}{K\_i}\right)

$$

## Non-competitive

$$

v=\frac{V\_{max}[S]}{K\_m(\left(1+\frac{[I]}{K\_i}\right)+[S](\left(1+\frac{[I]}{K\_i})\right)}

$$

## Uncompetitive

$$

v=\frac{V\_{max}[S]}{K\_m+[S](\left(1+\frac{[I]}{K\_i}\right)}

$$

## Mixed

$$

v=\frac{V\_{max}[S]}{K\_m(\left(1+\frac{[I]}{K\_i}\right)+[S](\left(1+\frac{[I]}{aK\_i}\right)}

$$