

ABSTRACT

**TEST METHODS FOR DETERMINING THE INTRACELLULAR
CONCENTRATION OF CYCLIC NUCLEOTIDES**

The invention relates to methods for the quantitative optical analysis of the intracellular concentration of the cyclic nucleotides cGMP and cAMP, said methods using cell lines which express a combination of certain CNG channels, a calcium-sensitive photoprotein, and different target proteins for which modulators are to be found, in a recombinant manner. The cell lines modified in this way are suitable for high-throughput screening (HTS and uHTS) and can be used to identify medicaments which influence the activity of receptors or enzymes participating in the composition or decomposition of the cyclic nucleotides cGMP and cAMP.

FIGURE 1