of PI3K inhibitors (see the review of R. Wetzker et al., 2004).

Inhibitors of the SAPK signal pathway, either of Jnk or of p38 have been described in the literature (Gum R.J., 1998, Bennett B.L. et al 2001, Davies S.P. et al 2000). However, no PI3K-inhibiting function and also no specific inhibition of Erk1 or Erk2 or simultaneous inhibition of SAPKs, Erk1, Erk2, or PI3Ks is disclosed for these SAPK inhibitors.

Summary of the invention

In one aspect, there is provided the use of compound as referred to in claim 1.

In another aspect, there is provided a pyridopyrazine selected from the group consisting of compounds 38 to 136 and 138 to 269 as described herein.

In another aspect, there is provided a pharmaceutical composition comprising a pharmacologically active quantity of at least one compound as described herein, and at least one pharmaceutically compatible excipient.

In another aspect, there is provided a kit comprising a pharmacologically active quantity of at least one compound as described herein and a pharmacologically active quantity of at least one further pharmacologically active substance as described herein.

Description of the invention

The object of the present invention is to provide new compounds which can be used for the treatment or prevention of physiological and/or pathophysiological states in mammals, in particular in humans, which are mediated by signal transduction pathways selected from the group consisting of: "ras-Raf-Mek-Erk signal transduction pathway, PI3K-Akt signal transduction pathway and/or SAPK signal transduction pathway". A further object of the invention is to provide new compounds for the aforesaid uses by modulation of said signal transduction pathways. It is further the object of the present invention to provide new compounds which can be used for the treatment or prevention of physiological and/or pathophysiological states in mammals, in particular in humans, which are mediated by enzymes selected from the group consisting of: "ATM, ATR, mTOR, DNA-PK, hSMG-1". A further object of the invention is to provide new compounds for the aforesaid uses by modulation of said enzymes.

The inventive object was surprisingly achieved in one aspect by preparing a compound according to the general formula (I)