

Quinoxaline-Based Scaffolds Targeting Tyrosine Kinases and Their Potential Anticancer Activity

Nasser Saad ,Aliya M. S. El Newahie, Dalal A. Abou El Ella, and Khaled A. M. Abouzid

Abstract

Quinoxaline derivatives, also called benzopyrazines, are an important class of heterocyclic compounds.

Quinoxalines have drawn great attention due to their wide spectrum of biological activities.

They are considered as an important basis for anticancer drugs due to their potential activity as

protein kinase inhibitors. In this review, we focus on the chemistry of the quinoxaline derivatives, the

strategies for their synthesis, their potential activities against various tyrosine kinases, and on the

structure-activity relationship studies reported to date.

Arch. Pharm. Chem. Life Sci. 2016, March