

Product Name : Olmutinib

Synonyms : BI1482694,HM61713

Cat No. : M21951

CAS Number : 1802181-20-9

Molecular Formula : C26H26N6O2S?

Formula Weight : 486.6

Chemical Name : ----

Description

Olmutinib is a Novel Epidermal Growth Factor Receptor Tyrosine Kinase InhibitorOlmutinib at 3 µM significantly reversed drug resistance mediated by ABCG2, but not by ABCB1 and ABCC1, by antagonizing the drug efflux function in ABCG2-overexpressing cells.?In addition, olmutinib at reversal concentration affected neither the protein expression level nor the localization of ABCG2.?The results observed from the accumulation/efflux study of olmutinib showed that olmutinib reversed

ABCG2-mediated MDR with an increasing intracellular drug accumulation due to inhibited drug efflux.?We also had consistent results with the ATPase assay that olmutinib stimulated ATPase activity of ABCG2 up to 3.5-fold.?Additionally, the molecular interaction between olmutinib and ABCG2 was identified by docking simulation.?Olmutinib not only interacts

directly with ABCG2 but also works as a competitive inhibitor of the transport protein.

Pathway : Angiogenesis

Target : EGFR

Receptor : EGFR

Solubility : —

SMILES : CN1CCN(CC1)c1ccc(cc1)Nc1nc2c(c(n1)Oc1cccc(c1)NC(=O)C=C)scc2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

 $1.\ Zhang\ W\ , Fan\ YF\ , Cai\ C\ Y\ , et\ al.\ Olmutinib\ (BI1482694/HM61713),\ a\ Novel\ Epidermal\ Growth\ Factor\ Receptor\ Tyrosine\ Kinase\ Inhibitor\ , Reverses\ ABCC2-Mediated\ Multidrug\ Resistance\ in\ Cancer\ Cells\ [J]\ . Frontiers\ in\ Pharmacology\ , 2018\ , 9.2.\ Zhang\ Z\ , Fu\ L\ , Guo\ X\ , et\ al.\ Olmutinib\ (HM61713)\ reversed\ multidrug\ resistance\ by\ inhibiting\ the\ activity\ of\ ATPbinding\ cassette\ subfamily\ Gmember\ 2\ in\ vitro\ and\ in\ vivo\ [J]\ . 2018\ , 008\ (004):563-574.$