Product Name: BH3I-1

Revision Date: 6/30/2016

Product Data Sheet

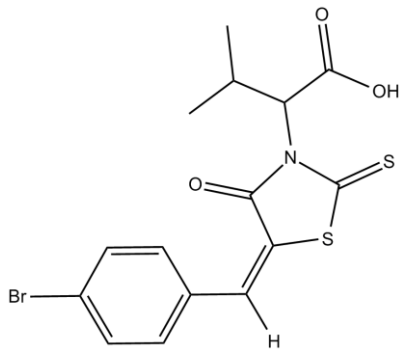
Chemical Properties

Product Name: BH3I-1

Cas No.: 300817-68-9

M.Wt: 400.31

Formula: C15H14BrNO3S2



Chemical Name: (E)-2-(5-(4-bromobenzylidene)-4-oxo-2-thioxothiazolidin-3-yl)-3-methylbutanoic acid

Canonical SMILES: CC(C(N(C1=S)C(/C(S1)=C([H])\C2=CC=C(Br)C=C2)=O)C(O)=O)C

Solubility: Soluble in DMSO

Storage: Store at -20°C

General tips: For obtaining a higher solubility , please warm the tube at 37° C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20° C for several months.

Shopping Condition: Evaluation sample solution : ship with blue ice
All other available size: ship with RT , or blue ice upon request

Biological Activity

Targets : Apoptosis

Pathways: Bcl-2 Family

Description:

IC50: 293.95 μM
BH3I-1 is an inhibitor of Bcl-2 or Bcl-XL.
It has been reported that a disregulation of the Bcl-2/ Bcl-XL family proteins may result in the development of cancer, since the failure of the inactivation of pro-apoptotic pathways, or the activation of anti-apoptotic pathways, may occur in the regulation processes.
In vitro: The Bcl-2 inhibitors BH3I-1 and it analog BH3I-2 had been applied as lead compounds to

find possible Bcl-2 or Bcl-X(L) inhibitors by using computer-assisted screening of in-house database. The identified compounds were further studied regarding their possible application as a drug. It was found that the induction of apoptosis, which was shown as number of hypodiploid cells, was increased by adding BH3I-1 and it analog BH3I-2 to Bjab Bcl-XL and Bjab neo/mock cells. In addition, the effects of the pro-apoptotic proteins Bax and Bak on the induction of apoptosis via BH3I-1 and it analog BH3I-2 were investigated with a variety of knockout cell lines, and resulted showed that the presence or absence of Bak or Bax has no significant influence on the amount of apoptotic events induced by BH3I-1 and it analog BH3I-2 [1].
In vivo: Currently, there is no animial in vivo data reported.
Clinical trial: Up to now, BH3I-1 is still in the preclinical development stage.

***Reference**:*

[1] Füllbeck M,Gebhardt N,Hossbach J,Daniel PT,Preissner R. Computer-assisted identification of small-molecule Bcl-2 modulators. Comput Biol Chem.2009 Dec;33(6):451-6.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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