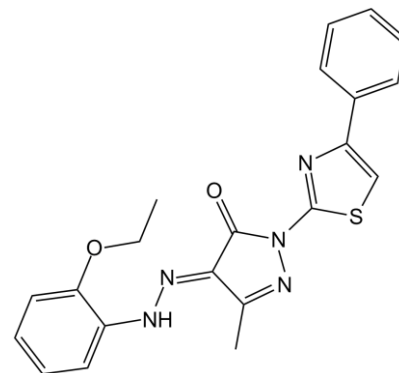


Product Data Sheet

Chemical Properties

Product Name:	BAM7
Cas No.:	331244-89-4
M.Wt:	405.47
Formula:	C ₂₁ H ₁₉ N ₅ O ₂ S
Synonyms:	BAM 7;BAM-7
Chemical Name:	(4E)-4-[(2-ethoxyphenyl)hydrazinylidene]-5-methyl-2-(4-phenyl-1,3-thiazol-2-yl)pyrazol-3-one
Canonical SMILES:	<chem>CCOC1=CC=CC=C1NN=C2C(=NN(C2=O)C3=NC(=CS3)C4=CC=CC=C4)C</chem>
Solubility:	Limited solubility
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:	Apoptosis Inducers

Description:

BAM7 is a direct and selective activator of BAX with IC₅₀ value of 3.3uM [1]. In the competitive fluorescence polarization assay (FPA), BAM7 competes with FITC-BIM SAHB for BAX binding site(BH3) in a dose dependent manner. BAM7 shows no antiapoptotic or BAKΔC competitive binding interactions even at 50 μM dosing, revealing a remarkable selectivity of BAM7 for BAX. The interaction between BAM7 and BAX at the very surface induces the

characteristic structural changes that yield functional BAX oligomerization. In the in vitro assay, BAM7 induces BAX-dependent cell death but not the cells with BAK. BAM7 could be developed to a new generation of apoptotic modulators that directly activate BCL-2 family executioner proteins in cancer and other diseases driven by pathologic apoptotic blockades [1].

Reference:

[1] Evripidis Gavathiotis, Denis E Reyna, Joseph A Bellairs, Elizaveta S Leshchiner, and Loren D Walensky. Direct and selective small-molecule activation of proapoptotic BAX. *Nat Chem Biol.* 2012 July ; 8(7): 639–645.

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.

ApexBio Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com