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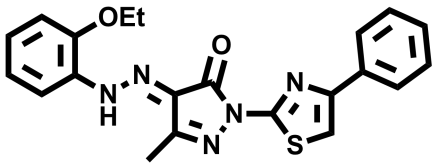
BAX Activator BAM7

Chemical Name: (E)-4-(2-(2-ethoxyphenyl)hydrazono)-3-methyl-1-(4-phenylthiazol-2-yl)-1H-pyrazol-5(4H)-one



Molecular Weight:	405.47
Formula:	$C_{21}H_{19}N_5O_2S$
Purity:	≥98%
CAS#:	331244-89-4
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C, 1 year DMSO: 4 °C, 3 months -20 °C, 1 year

Biological Activity:

BAM7 is the first potent and selective small molecule activator of BAX, which is a pro-apoptotic BCL-2 family member. It binds the BAX trigger site with an EC_{50} ~ 3.3 μM as measured in a competitive FP assay using FITC-BIM SAHB and BAX. BAM7 triggers in vitro BAX oligomerization, BAX-mediated pore formation, and does not interact with the BH3-binding pocket of antiapoptotic proteins or proapoptotic BAK. It induces cell death in a BAX-dependent fashion. It can also induce the biochemical and morphologic features of BAX-mediated apoptosis in $Bak^{-/-}$ MEFs. BAM7 is selective for the BH3-binding groove at the N-terminal face of BAX and thus may serve as a powerful chemical tool for dissecting the physiologic consequences of direct BAX activation in a variety of homeostatic and pathologic conditions.

How to Use:

In vitro: BAM7 was used at 10-30 μM final concentration in vitro and in cellular assays.

In vivo: n/a

Reference:

1. Gavathiotis E, et al. Direct and selective small-molecule activation of proapoptotic BAX. (2012) Nat Chem Biol. 8(7):639-45.