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**Product Data Sheet**

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Product Name: SMBA 1  
Cat. No.: GC50141

**Chemical Properties**

Cas. No. 906440-37-7

SMILES OC(C=CC=C4)=C4\C=C2C3=C(C=CC([N+])([O-])=O)=C3)C1=CC=CC=C1/2

Formula C<sub>20</sub>H<sub>13</sub>NO<sub>3</sub> M.Wt 315.32

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.

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

Structure

**Background**

High affinity and selective activator of Bax (K<sub>i</sub> = 43.3 nM). Binds to the S184 binding pocket to block Bax phosphorylation. Does not bind to other Bcl-2 family members, including Bcl-2, Bak and Bid. Facilitates Bax insertion into the mitochondrial membrane and promotes Bax-dependent cytochrome c release. Induces apoptosis in lung cancer cell lines expressing high levels of Bax selectively over normal cells expressing low levels of Bax. Represses tumor growth of A549 lung cancer xenografts in mice.

Xin et al (2014) Small-molecule Bax agonists for cancer therapy. Nat. Commun. 5 4935  
PMID:25230299

**Caution: Product has not been fully validated for medical applications. For research use only.**

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