

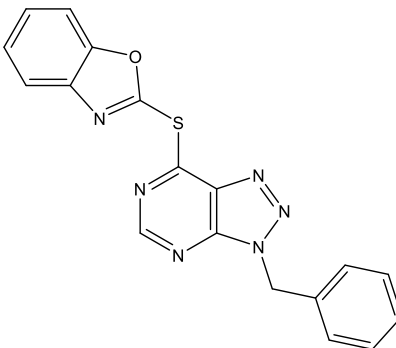
**Catalog # 10-1073**

**VAS-2870**

CAS# 722456-31-7

3-Benzyl-7-(2-benzoxazolyl)thio-1,2,3-triazolo(4,5-d)pyrimidine

Lot # FBS1103



VAS-2870 is an NAD(P)H oxidase (Nox) inhibitor. Abolishes PDGF-mediated Nox activation and ROS production (100% at 10  $\mu$ M). Inhibits PMA-induced oxidative burst in HL-60 cells ( $IC_{50}=2$   $\mu$ M). Enhances TGF- $\beta$ -induced apoptosis in liver tumor cells.

- 1) Freyhaus *et al.*, (2006), *Novel Nox inhibitor VAS2870 attenuates PDGF-dependent smooth muscle cell chemotaxis, but not proliferation*; Cardiovasc. Res. **71** 331
- 2) Stielow *et al.*, (2006), *Novel Nox inhibitor of oxLDL-induced reactive oxygen species formation in human endothelial cells*; Biochem. Biophys. Res. Commun. **344** 200
- 3) Sancho *et al.*, (2011), *The NADPH oxidase inhibitor VAS2870 impairs cell growth and enhances TGF- $\beta$ -induced apoptosis of liver tumor cells*; Biochem. Pharmacol. **81** 917

**PHYSICAL DATA**

Molecular Weight:	360.40
Molecular Formula:	C <sub>18</sub> H <sub>12</sub> N <sub>6</sub> OS
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml), DMF (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

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