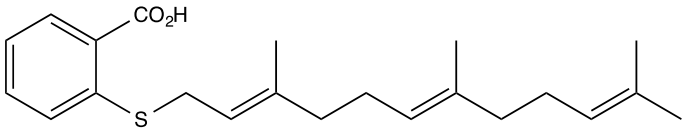
Catalog # 10-1461

Salirasib

trans-Farnesylthiosalicylic acid

Lot # FBM3030



Salirasib is a synthetic farnesylcysteine mimetic that inhibits ras proteins[1,2] *via* disruption of interactions between the S-Prenyl moiety of Ras and the membrane anchorage domains[3]. It has been investigated in the treatment of various cancers.[4,5] HCC cells pretreated with salirasib were sensitized to TRAIL-induced apoptosis.[6] Salirasib has also been shown to inhibit TRPA1 (EC_{50} = 1.3 µM).[7]

1) Marciano *et al*. (1995), *Farnesyl Derivatives of Rigid Carboxylic Acids – Inhibitors of ras-Dependent Cell Growth*; J.Med.Chem. **38** 1267
2) Marom *et al*. (1995), *Selective inhibition of Ras-dependent cell growth by farnesylthiosalicylic acid (salirasib) in patients with solid tumors*; J.Biol.Chem. **270** 22263
3) Haklai *et al*. (1998), *Dislodgement and Accelerated Degradation of Ras*; Biochemistry **37** 1306
4) Laheru *et al*. (2012), *Integrated preclinical and clinical development of S-trans,trans-Farnesylthiosalicylic acid (FTS, Salirasib) in pancreatic cancer*; Invest.New Drugs **30** 2391
5) Tsimberidou *et al*. (2010), *Phase 1 first-in-human clinical study of S-trans,trans-farnesylthiosalicylic acid (salirasib) in patients with solid tumors*; Cancer Chemother.Pharmacol. **65** 235
6) Charette *et al*. (2013), *Salirasib sensitizes hepatocarcinoma cells to TRAIL-induced apoptosis through DR5 and survivin-dependent mechanisms*; Cell Death and Disease. **4** e471
7) Maher *et al*. (2008), *Activation of TRPA1 by farnesyl thiosalicylic acid*; Mol.Pharmacol. **73** 1225

PHYSICAL DATA

Molecular Weight:	358.54
Molecular Formula:	$C_{22}H_{30}O_2S$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml); ethanol (up to 20 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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