

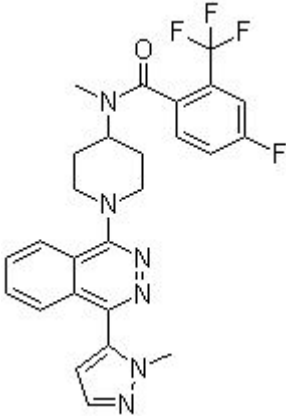


Product Introduction

LY2940680

LY2940680 binds to the **Smoothed** (Smo) receptor and potently inhibits **Hedgehog** (Hh) signaling. Phase 1/2.

Technical Data:

Molecular Weight (MW):	512.5	
Formula:	C ₂₆ H ₂₄ F ₄ N ₆ O	
Solubility (25°C)	DMSO 0.66 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol 2 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	1258861-20-9	

Biological Activity

LY2940680 inhibits cancer growth in cell lines containing a mutation in the gene encoding Smoothed that researchers had previously observed in patient with cancer who developed resistance to vismodegib. [1]

LY2940680 has excellent pharmacokinetic properties in rodent and non-rodent species. LY2940680 administrated orally treats Ptch^{+/-} p53^{-/-} transgenic mice which spontaneously develop medulloblastoma, produces remarkable efficacy and significantly improves their survival. LY2940680 reveals rapid kinetics of

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anti-tumor activity through magnetic resonance imaging of these mice, and LY2940680 induces Caspase-3 activity and reduces proliferation by immunohistochemistry analysis of medulloblastoma tumors. LY2940680 inhibits Hh regulated gene expression in the subcutaneous xenograft tumor stroma and produces significant anti-tumor activity. ^[2]

References

- [1] Redmond EM et al. Expert Opin Investig Drugs, 2011, 20(12),1649-1664.
[2] Mark H. Bender, Cancer Research, 2011, Volume 71, Issue 8, Supplement1



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