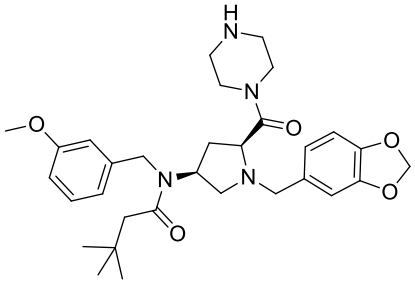
Catalog # 10-1392
CUR-61414

334998-36-6

N-[(3S,5S)-1-(1,3-Benzodioxol-5-ylmethyl)-5-(1-piperazinylcarbonyl)-3-pyrrolidinyl]-N-[(3-methoxyphenyl)methyl]-3,3-dimethylbutanamide

Lot # X101807



Novel Hedgehog signaling pathway inhibitor (IC_{50}=100-200 nM). Selectively binds to Smo but not other GPCRs. Blocks the formation of and induces the regression of basaloid lesions in skin punches and shrinks UV-induced basaloid lesions in adult mouse skin. Cell permeable.

1) Williams *et al*. (2003), *Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions*; Proc.Natl. Acad. Sci. USA, **100** 4616
2) Tang *et al*. (2011), *Targeting superficial or nodular Basal cell carcinoma with topically formulated small molecule inhibitor of smoothened*; Clin. Cancer Res., **17** 3378
3) Athar *et al*. (2004), *Inhibition of smoothened signaling prevents ultraviolet B-induced basal cell carcinomas through regulation of Fas expression and apoptosis*; Sci. Signal., **64** 7545

PHYSICAL DATA

Molecular Weight:	550.71
Molecular Formula:	$C_{31}H_{42}N_4O_5$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml with warming) or Ethanol (up to 20 mg/ml with warming)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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