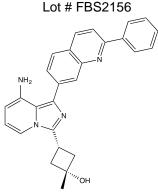


## Catalog # 10-4814

## Linsitinib

CAS# 867160-71-2

3-[8-Amino-1-(2-phenyl-7-quinolyl)imidazo[1,5-a]pyrazin-3-yl]-1-methyl-cyclobutanol; OSI-906



Linsitinib is a potent and selective dual inhibitor of insulin-like growth factor 1 (IGF-1R) kinase and insulin receptor (InsR) kinase (IC<sub>50</sub>'s = 35 and 75 nM respectively).<sup>1</sup> It has been investigated as a chemotherapeutic in combination with other drugs for various cancers.<sup>2-6</sup>

- 1) Mulvihill *et al.* (2009), *Discovery of OSI-906: a selective and orally efficacious inhibitor of the IGF-1 receptor and insulin receptor*, Future Med.Chem. **1** 1153
- Bendell et al. (2015), A phase Ib study of linsitinib (OSI-906), a dual inhibitor of IGF-1R and IR tyrosine kinase, in combination with everolimus as treatment for patients with refractory metastatic colorectal cancer; Invest.New Drugs 33 187
- 3) Pivonello et al. (2016), The dual targeting of insulin and insulin-like growth factor 1 receptor enhances the mTOR inhibitormediated antitumor efficacy in hepatocellular carcinoma; Oncotarget **7** 9718
- 4) Lee et al. (2016), Inhibition of IGF1R signaling abrogates resistance to afatinib (BIBW2992) in EGFR T790M mutant lung cancer cells; Mol.Carcinog. 55 991
- 5) Macaulay et al. (2016), Phase I Dose-Escalation Study of Linsitinib (OSI-906) and Erlotinib in Patients with Advanced Solid Tumors; Clin.Cancer Res. 22 2897
- 6) De Lint *et al.* (2016), Sensitizing Triple-Negative Breast Cancer to PI3K Inhibition by Cotargeting IGF1R; Mol.Cancer Ther. **15** 1545

## PHYSICAL DATA

Molecular Weight:	421.49
Molecular Formula:	C <sub>26</sub> H <sub>23</sub> N <sub>5</sub> O
Purity:	>98% by HPLC
	NMR: Conforms
Solubility:	DMSO (>30 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in
	DMSO may be stored at -20°C for up to 2 months.

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