

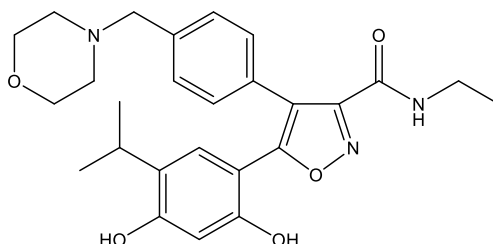
**Catalog # 10-4672**

**Luminespib**

CAS# 747412-49-3

5-(2,4-Dihydroxy-5-propan-2-ylphenyl)-N-ethyl-4-[4-(morpholin-4-ylmethyl)phenyl]-1,2-oxazole-3-carboxamide;  
NVP-AUY922; VER-52296

Lot # FBS2198



Luminespib is a potent inhibitor ( $IC_{50} = 21$  nM) of HSP90.<sup>1</sup> It is active against various human tumor xenograft models acting via several processes including cytostasis, apoptosis, invasion, and angiogenesis.<sup>2,3</sup> Luminespib enhances tumor susceptibility to T-cell-based immunotherapy by re-invigorating the cancer-immunity cycle in NANOG<sup>+</sup> cancer cells.<sup>4</sup> It also acts as a radiosensitizer against various tumor cells.<sup>5-7</sup>

- 1) Brough *et al.* (2008), *4,5-Diarylisoxazole Hsp90 chaperone inhibitors: potential therapeutic agents for the treatment of cancer*; J. Med. Chem. **51** 196
- 2) Eccles *et al.* (2008), *NVP-AUY922: a novel heat shock protein 90 inhibitor active against xenograft tumor growth, angiogenesis, and metastasis*; Cancer Res. **68** 2850
- 3) Massey *et al.* (2010), *Preclinical antitumor activity of the orally available heat shock protein 90 inhibitor*; Mol. Cancer Ther. **5** 1807
- 4) Song *et al.* (2020), *HSP90A inhibition promotes anti-tumor immunity by reversing multi-modal resistance and stem-like property of immune-refractory tumors*; Nat. Commun. **11** 562
- 5) Schwab and Multhoff (2022), *A Low Membrane Hsp70 Expression in Tumor Cells With Impaired Lactate Metabolism Mediates Radiosensitization by NVP-AUY922*; Front. Oncol. **12** 861266
- 6) Djuzenova *et al.* (2012), *Hsp90 inhibitor NVP-AUY922 enhances radiation sensitivity of tumor cells lines under hypoxia*; Cancer Biol. Ther. **13** 425
- 7) Schilling *et al.* (2015), *Sensitizing tumor cells to radiation by targeting the heat shock response*; Cancer Lett. **360** 294

**PHYSICAL DATA**

Molecular Weight:	465.54
Molecular Formula:	C <sub>26</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub>
Purity:	99% HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions 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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