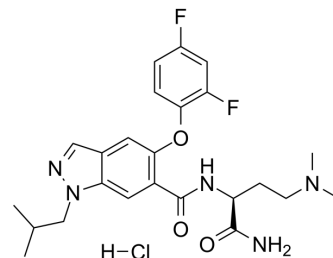


## Emprumapimod hydrochloride

<b>Cat. No.:</b>	HY-145564A
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>30</sub> ClF <sub>2</sub> N <sub>5</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	509.98
<b>Target:</b>	p38 MAPK
<b>Pathway:</b>	MAPK/ERK Pathway
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Emprumapimod (PF-07265803) hydrochloride is an orally active and selective inhibitor of p38α MAPK. Emprumapimod hydrochloride can be used for the research of dilated cardiomyopathy and acute inflammatory pain <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	p38α
<b>In Vitro</b>	Emprumapimod hydrochloride (ARRY-797) inhibits LPS-induced IL-6 production in RPMI-8226 cell with an IC <sub>50</sub> value of 100 pM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Emprumapimod hydrochloride (ARRY-797) (30 mg/kg; p.o.) inhibits the expression of IL-6 (91%) and TNF-α (95%) in SCID-beige mice, inhibits the phosphorylation of p38 in RPMI-8226 xenografts, inhibits the growth of RPMI-8226 tumour (72%) in multiple myeloma (MM) xenograft models <sup>[1]</sup> . Emprumapimod hydrochloride (30 mg/kg; p.o.; twice daily for 4 weeks) prevents left ventricular (LV) dilatation and deterioration of fractional shortening (FS) in Lmna <sup>H222P/H222P</sup> mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Wright D, et al. ARRY-797, a potent and selective inhibitor of p38 map kinase, inhibits LPS-induced IL-6 and in vivo growth of RPMI-8226 human multiple myeloma cells[J]. 2006.
- [2]. Antoine Muchir, et al. Abnormal p38α mitogen-activated protein kinase signaling in dilated cardiomyopathy caused by lamin A/C gene mutation. Hum Mol Genet. 2012 Oct 1;21(19):4325-33.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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