

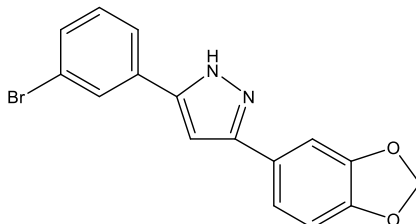
**Catalog # 10-4945**

**Anle138b**

CAS# 882697-00-9

5-(1,3-Benzodioxol-5-yl)-3-(3-bromophenyl)-1H-pyrazole

Lot # FBS2050



Anle138b is an aggregation inhibitor that modulates the formation of pathological oligomers of both prion and  $\alpha$ -synuclein.<sup>1</sup> In mouse models of prion and diseases and Parkinson's disease, Anle138b strongly inhibited oligomer formation, neuronal degeneration, and disease progression even after disease onset.<sup>1,2</sup> Anle138b has delayed disease progression and prevented motor decline in multiple neurodegenerative models.<sup>3-6</sup> Treatment of melanoma cells with anle138b caused massive cell death via major dysregulation of autophagy revealing a protective effect of  $\alpha$ -synuclein on autophagy in these cells.<sup>7</sup> Orally bioavailable and able to cross the blood-brain barrier.

- 1) Wagner *et al.* (2013), *Anle138b: a novel oligomer modulator for disease-modifying therapy of neurodegenerative diseases such as prion and Parkinson's disease*; Acta Neuropathol., **125** 795
- 2) Levin *et al.* (2014), *The oligomer modulator anle138b inhibits disease progression in a Parkinson's mouse model even with treatment started after disease onset*; Acta Neuropathol., **127** 779
- 3) Wagner *et al.* (2015), *Reducing tau aggregates with anle138b delays disease progression in a mouse model of tauopathies*; Acta Neuropathol., **130** 619
- 4) Martinez Hernandez *et al.* (2018), *The diphenylpyrazole compound anle138b blocks A $\beta$  channels and rescues disease phenotypes in a mouse model for amyloid pathology*; EMBO Mol. Med., **10** 32
- 5) Heras-Garvin *et al.* (2019), *Anle138b modulates  $\alpha$ -synuclein oligomerization and prevents motor decline and neurodegeneration in a mouse model of multiple system atrophy*; Mov. Disord., **34** 255
- 6) Brendel *et al.* (2019), *Late-stage Anle138b treatment ameliorates tau pathology and metabolic decline in a mouse model of human Alzheimers disease tau*; Alzheimer's Res.Ther., **11** 67
- 7) Turriani *et al.* (2017), *Treatment with diphenyl-pyrazole compound anle138b reveals that  $\alpha$ -synuclein protects melanoma cells from autophagic cell death*; Proc. Natl. Acad. Sci. USA, **114** E4971

**PHYSICAL DATA**

Molecular Weight:	343.18
Molecular Formula:	<b>C<sub>16</sub>H<sub>11</sub>BrN<sub>2</sub>O<sub>2</sub></b>
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (15 mg/mL with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated 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 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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