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## Product Datasheet

### **Belnacasan, CAS [[273404-37-8]] FBM-10-4399**

Artikelname	Belnacasan, CAS [[273404-37-8]]
Artikelnummer	FBM-10-4399
Hersteller Artikelnummer	10-4399
Alternativnummer	FBM-10-4399-5MG,FBM-10-4399-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	ICE/caspase-1 inhibitor...
Molekulargewicht	508.99
Reinheit	98% by HPLC NMR (Conforms)
Formulierung	Off-white to white solid
CAS Nummer	[273404-37-8]
Formel	C <sub>24</sub> H <sub>33</sub> CIN <sub>4</sub> O <sub>6</sub>

Anwendungsbeschreibung	<p>Prodrug of VRT-043198, a potent (<math>K_i = 0.8 \text{ nM}</math> ICE/caspase-1, <math>&lt;0.6 \text{ nM}</math> caspase-4) and selective inhibitor of interleukin-converting enzyme/caspase-1 subfamily caspases.<sup>1</sup> VRT-043198 ICE/caspase-1 <math>IC_{50} = 0.67 \text{ } \mu\text{M}</math> PBMCs, <math>1.0 \text{ } \mu\text{M}</math> whole blood. It inhibited the release of IL-1b and IL-18 from human monocytes in vitro and their production in vivo in models of inflammation. Belnacasan inhibited the activation and expression of the NLRP3 Inflammasome leading to moderation of depressive-like behaviors induced by chronic mild stress<sup>2</sup> and prevention of glial pyroptosis in multiple sclerosis models<sup>3</sup>. It inhibited pyroptosis in vascular smooth muscle cells during atherogenesis suggesting a possible therapeutic effect in treating atherosclerotic disease.<sup>4</sup> Belnacasan reduced acute seizures and drug resistant chronic epileptic activity in mice<sup>5</sup> and provided neuroprotection in two rat models of temporal lobe epilepsy<sup>6</sup>. It also displays protective effects in models of stroke<sup>7</sup> and Alzheimers disease<sup>8</sup>.</p>
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