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## Product Datasheet

**Boceprevir**  
**FBM-10-5087**

Artikelname	Boceprevir
Artikelnummer	FBM-10-5087
Hersteller Artikelnummer	10-5087
Alternativnummer	FBM-10-5087-5MG,FBM-10-5087-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Antiviral, SARS-CoV-2 Mpro inhibitor...
Molekulargewicht	519.68
Reinheit	98% by TLC NMR (Conforms)
Formulierung	White or off-white solid
CAS Nummer	[394730-60-0]
Formel	C <sub>27</sub> H <sub>45</sub> N <sub>5</sub> O <sub>5</sub>
Anwendungsbeschreibung	<p>Boceprevir (394730-60-0) directly inhibits Hepatitis C virus (HCV) NS3 protease (overall binding constant for formation of covalent adduct, <math>K_i^* = 14 \text{ nM}</math>, initial inhibition constant <math>K_i = 7.8 \text{ }\mu\text{M}</math>). This blocks NS3 autoactivation, and subsequent cleavage and maturation of other viral proteins necessary for replisome assembly. This reversible, slow-binding ketoamide also restores host interferon signaling obstructed by HCV, thus reactivating the immune response<sup>1</sup>. Recently, it was also found to inhibit the key SARS-CoV-2 protease, Mpro (3CLpro) in vitro (<math>K_i = 1.18 \text{ }\mu\text{M}</math>) and in cells (<math>EC_{50} = 1.9 \text{ }\mu\text{M}</math>, virus-induced cytopathic effects (CPE)</p>