

---

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

**BI-D1870, CAS [[501437-28-1]]**

**FBM-10-4791**

Article Name	BI-D1870, CAS [[501437-28-1]]
Biozol Catalog Number	FBM-10-4791
Supplier Catalog Number	10-4791
Alternative Catalog Number	FBM-10-4791-5MG,FBM-10-4791-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	p90 Ribosomal S6 kinase inhibitor...
Molecular Weight	391.42
Purity	98%, NMR (Conforms)
Form	Off-white solid
CAS Number	[501437-28-1]
Formula	C19H23F2N5O2
Application Notes	<p>BI-D1870 is an inhibitor of p90 ribosomal S6 kinase (RSK, IC50s = RSK1, 31 nM, RSK2, 24 nM, RSK3, 18 nM, RSK4, 15 nM) with selectivity over other AGC kinases.<sup>1</sup> It protected mice from experimental autoimmune encephalomyelitis suggesting a new strategy to treat multiple sclerosis.<sup>2</sup> BI-D1870 has also been found to alter mTORC1 signaling in an RSK-independent manner.<sup>3</sup> BI-D1870 induced apoptosis in oral squamous cell carcinoma cells<sup>4</sup>, suppressed growth and induced apoptosis in pediatric medulloblastoma cell lines as well as sensitizing these lines to Sonic hedgehog agents<sup>5</sup>, and blocked cell proliferation and protein synthesis in dual BRAF and MEK inhibitor-resistant melanoma<sup>6</sup>.</p>