

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



## DATASHEET

TAK 715

### Product overview

<b>Name</b>	TAK 715
<b>Cat No</b>	HB0599
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%
<b>Description</b>	Potent, p-38 MAP kinase inhibitor. Wnt/ $\beta$ -catenin signaling inhibitor.

### Biological Data

<b>Biological description</b>	Potent p-38 MAP kinase inhibitor ( $IC_{50} = 7.1$ nM for p-38MAPK $\alpha$ ). Also Wnt-3a-stimulated $\beta$ -catenin signalling inhibitor. Shows anti-rheumatic and anti-inflammatory properties.
-------------------------------	---

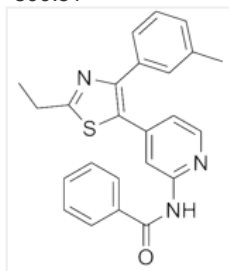
### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100mM) or ethanol (50mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-[4-[2-Ethyl-4-(3-methylphenyl)-5-thiazolyl]-2-pyridinyl]benzamide
<b>Molecular Weight</b>	399.51

**Chemical structure**



<b>Molecular Formula</b>	C <sub>24</sub> H <sub>21</sub> N <sub>3</sub> OS
<b>CAS Number</b>	303162-79-0
<b>PubChem identifier</b>	9952773
<b>SMILES</b>	CCC1=NC(=C(S1)C2=CC(=NC=C2)NC(=O)C3=CC=CC=C3)C4=CC(=CC=C4)C
<b>InChiKey</b>	BRYAJHADJWBFQY-UHFFFAOYSA-N

### References

**Inhibition of Wnt/ $\beta$ -catenin signaling by p38 MAP kinase inhibitors is explained by cross-reactivity with casein kinase I $\delta/\epsilon$ .**

Verkaar F *et al* (2011) Chem Biol 18(4)

**PubMedID** [21513885](https://pubmed.ncbi.nlm.nih.gov/21513885/)

**Novel inhibitor of p38 MAP kinase as an anti-TNF-alpha drug: discovery of N-[4-[2-ethyl-4-(3-methylphenyl)-1,3-thiazol-5-yl]-2-pyridyl]benzamide (TAK-715) as a potent and orally active anti-rheumatoid arthritis agent.**

Miwatashi S *et al* (2005) J Med Chem 48(19)

**PubMedID** [16162000](#)

**X-ray structure of p38 $\alpha$  bound to TAK-715: comparison with three classic inhibitors.**

Azevedo R *et al* (2012) Acta Crystallogr D Biol Crystallogr 68(Pt 8)

**PubMedID** [22868770](#)

---